

News Summary

ALSTER

Internee fall in equities
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BUSINESS

Gilts up: the Board of Trust Houses Forte

● **GILTS** rallied on the Canadian bank rate cut through trading was quiet. Longs' rises ranged to 1, but a late increase in the Treasury 8 pc 2002-06 tap price had little effect.

● **EQUITIES** met with selling. The 30-share index ended 4.5 lower at 402.5 or 64 per cent below the 430.8 peak of September 7.

● **GOLD** touched \$2,493.8 and ended with a net 31 points gain at \$2,492.4, its highest closing rate of the float period.

● **GOLD** stayed at \$42.50.

● **WALL STREET'S** index ended a point above the day's lowest at 848.50, or 3.37 down.

● **MACHINE TOOL** ORDERS from U.K. buyers fell in July to a net \$3.7m, lowest for many years and comparing with some \$11m a year before. The end-July order book, at \$117.8m, was the smallest since 1967.

● **EUROPEAN AIRBUS** project, already the subject of talk in Bonn that West Germany might pull out, has met with doubts in France. The GCT union has appealed to the Paris Government to let Air France have funds to buy the aircraft and safeguard its future.

● **Hay's Wharf £300m. plan**

● **PROPRIETORS OF HAY'S** Wharf has plans under way to redevelop a 38.5-acre site on London's South Bank costing £300m. Some 2m square feet of net lettable office space, two major hotels and 626 flats are included in the plan which could give work for 20,000.

● **UNION PROPOSALS** to modify the effects of the BSA crisis are to be put to-day by Sir John Edén, Trade and Industry Minister, to Lord Shawcross, BSA's chairman designate. Lord Shawcross has warned the 4,700 voluntary employees that liquidation will be risked unless they co-operate in redundancies affecting 3,000 to enable the motor cycle assembly to be moved to Meriden.

● **DELTA METAL**, holding a 9.8 per cent stake in Midland Electrical Manufacturing, has stated terms, in shares and convertible stock, for the company worth nearly £17m. Delta's approach to get the bid agreed by MEM did not succeed.

● **DAIKLER-BENZ**, leading West German producer of commercial vehicles, is putting 6,000 employees on short time at least until the year-end, at Gagganau, near Karlsruhe.

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Lord Robens joins the Board of Trust Houses Forte

BY SANDY McLACHLAN

Allied Breweries has had its suggestion of friendly take-over talks with Trust Houses Forte turned down. A letter from Lord Crowther to Allied's chairman, Mr. Joe Thorley, which Mr. Thorley received yesterday morning, said that there was nothing for THF to consider until Allied had an offer on the table.

A spokesman for N. M. Rothschild, financial advisers to Allied, would not comment on Lord Crowther's letter yesterday. But it is clear that Allied will have to consider carefully whether to go ahead with an unwelcome bid. It is known that Lord Crowther received a further letter from Mr. Thorley yesterday afternoon.

THF announced yesterday that Lord Robens has been appointed to the Board. The move, which brings the number of directors up to 20, is widely seen as an attempt to find a conciliatory bridge between the two factions on the THF Board led by Lord Crowther and Sir Charles Forte. There are other possible interpretations, however, and this view is believed to be an over-simplification.

Lord Robens, the ex-Coal Board chief who is now chairman of Vickers and Johnson Matthey, is friendly with both Lord Crowther and Sir Charles. The Council of Trustees at THF, which was consulted over the week-end, has welcomed his appointment. Last night Lord Robens and Sir Charles Forte attended a National Sporting Club dinner at the Cafe Royal.

Asked about his role at THF, Lord Robens commented last night: "It will be to ensure that my contribution will be to the benefit of the organisation without being involved in taking sides one way or the other." He added that he would probably play "a reasonably good role" in healing the breach between the two factions of the THF Board.

Lord Robens would not comment about the timing of the approach to him. He pointed out that when he announced his decision to leave the Coal Board it had been made clear that his services would be available and that THF was one of a number of companies advised of this fact. Sir Charles Forte declined to comment either on the appointment of Lord Robens or on the view taken by the THF Board and its two merchant bank advisers, Schroder Wagg and S. G. Warburg, is that the bid approach would never have materialised had it not been for the much publicised boardroom split.

THF and its advisers are confident that they can ward off an unwanted Allied bid if no other contenders throw their hat into the ring. However, maintaining THF's independence might be a more difficult proposition if a third party joined the auction, particularly one with a high market rating. Certainly Warburg is fielding a high powered team of Mr. Henry Grunfeld, chairman of the bank and of its parent, Mercury Securities, and Mr. Frank Smith who has a formidable record in defending take-over bids. The Schroders' line-up is not yet finally decided.

In spite of the internal differences at THF, the general feeling is that there is no great industrial logic in favour of a merger with Allied. At the same time there is a conviction that, personalities apart, the thinking behind the original merger between Trust Houses and Forte's Holdings still holds good.

The first advice from the two banks to the THF Board was that they should pull together while there is a threat of a bid, in spite of the split. The banks take the view that the split represents a gap which any bidder could exploit, and that the wider the gap, the more difficult is the defensive role.

The stock market yesterday was uncertain how to treat the appointment of Lord Robens. Dealers plumped for caution, and THF shares fell 10p to 154p, wiping \$8m. off the market capitalisation.



Lord Robens in London last night

Pompidou in no hurry for summit with Brandt

BY ROBERT MAUTHNER

PRESIDENT POMPIDOU appears to be in no particular hurry to reply to the letter which Herr Willy Brandt, the West German Chancellor, sent him last week proposing a Franco-German summit meeting. The French President is understood to have sent what is described here as a "provisional reply," which expresses polite interest in Herr Brandt's suggestion without, however, making clear whether M. Pompidou will take up the proposal. A more detailed reply will be sent to Bonn at the end of this week after Mr. Leonid Brezhnev, the Soviet Communist Party First Secretary, who arrived in Paris to-day on an official visit, has returned home.

While no attempt is being made in Paris to play down the deterioration in Franco-German relations which has taken place as a result of disagreements over international policy, there are no tendencies either to blow up the whole affair into a crisis. French officialdom is remaining very cool and there seems to be a widespread belief that time is on France's side.

The dual exchange market, set up by France after President Nixon's August measures, has been working better than anyone at first thought possible and the current effective dollar devaluation rate on the free market is only of the order of 2.4 per cent.

In French eyes, this merely confirms a certain satisfaction in the fact that there is no reason for the franc to be revalued, even as part of an international realignment of exchange rates.

It is clear, too, that the French have a certain satisfaction in the fact that the Germans' sue for peace, after what they consider to be Bonn's high-handed methods of dealing with the international currency crisis in the first place.

The feeling that, now that the Germans have realised the importance of co-ordinating their monetary policies with those of their European partners, they should be left to sweat it out a bit, is certainly one of the reasons behind the lack of urgency which President Pompidou is showing.

In the longer run, however, the French are as interested in a common European position as the Germans are, and there is no reason to suppose that the quarrel with Bonn will be allowed to fester indefinitely. M. Pompidou is, in any case, due to meet Herr Brandt in January next year as part of the regular meetings of Heads of Government of the two countries, provided that the Franco-German Treaty and may well, in the end, agree to bring the meeting forward by a few weeks.

Mrs. Shirley Williams is known to have shared Mr. Lever's original view about resignation when the group discussed its position last Thursday. Some pro-marketisers claim that Mr. George Thomson had agreed with them. But, apart from the question of Mr. Houghton, the situation now seems to have stabilised.

Labour pressures on MPs on the fringes of the pro-Market camp continue to build up and the number of MPs who say they will abstain in Thursday's division is growing. Mr. Ted Short, a member of the "shadow" Cabinet and a former chief whip, announced last night that he had decided to abstain because his party had decided overwhelmingly against the present entry terms and had issued a three-line whip. He said he was invoking the party's standing order allowing abstentions on a matter of conscience.

Another Labour European, Mr. Fred Mulley, a "shadow" spokesman on transport, is also believed to have decided to abstain. But the Labour whips estimate that at least 40 pro-Market MPs will vote with the Government, which together with abstainers, could give the Government a majority of about 70.

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FLOATING £

	Oct. 25	Oct. 26	% change
U.S. \$	1.54	1.54	0.0
Can. \$	1.24	1.24	0.0
Dutch fl.	1.54	1.54	0.0
Swiss fr.	1.54	1.54	0.0
Italian lire	1.54	1.54	0.0
Japanese yen	1.54	1.54	0.0
French franc	1.54	1.54	0.0
German mark	1.54	1.54	0.0
Spanish peseta	1.54	1.54	0.0
Portuguese escudo	1.54	1.54	0.0
Belgian franc	1.54	1.54	0.0
Austrian schilling	1.54	1.54	0.0
Swedish krona	1.54	1.54	0.0
Norwegian krone	1.54	1.54	0.0
Danish krone	1.54	1.54	0.0
Irish pound	1.54	1.54	0.0
Maltese lira	1.54	1.54	0.0
Cypriot pound	1.54	1.54	0.0
Israeli sheqel	1.54	1.54	0.0
Yugoslav dinar	1.54	1.54	0.0
Czechoslovak koruna	1.54	1.54	0.0
Soviet ruble	1.54	1.54	0.0
Russian ruble	1.54	1.54	0.0
Polish zloty	1.54	1.54	0.0
Hungarian forint	1.54	1.54	0.0
Romanian leu	1.54	1.54	0.0
Bulgarian lev	1.54	1.54	0.0
Serbian dinar	1.54	1.54	0.0
Croatian kuna	1.54	1.54	0.0
Slovenian tolar	1.54	1.54	0.0
Czechoslovak koruna	1.54	1.54	0.0
Soviet ruble	1.54	1.54	0.0
Russian ruble	1.54	1.54	0.0
Polish zloty	1.54	1.54	0.0
Hungarian forint	1.54	1.54	0.0
Romanian leu	1.54	1.54	0.0
Bulgarian lev	1.54	1.54	0.0
Serbian dinar	1.54	1.54	0.0
Croatian kuna	1.54	1.54	0.0
Slovenian tolar	1.54	1.54	0.0

U.K. DAILY STOCK INDICES

	Oct. 25	Oct. 26	% change
Govt. Secs.	75.2	75.2	0.0
Foreign Int.	75.2	75.2	0.0
Industrial Ord.	75.2	75.2	0.0
Gold Mines	75.2	75.2	0.0
Ord. div. yield	75.2	75.2	0.0

Export recovery by U.K. engineers

By Harold Bolter, Industrial Correspondent

NEW export orders placed with the U.K.'s engineering industries rose by 41 per cent in the three months to the end of August, compared with the March-May period, according to statistics released by the Government yesterday.

Although the Department of Trade and Industry figures are provisional, there is every indication of a strong underlying trend upwards in overseas business, following the low returns recorded earlier in the year.

This recovery first began to show itself in June. The figures for that month, now finalised, indicate a 35 per cent rise on the engineering export order-book level for May, and since then there appear to have been further advances.

Unfortunately, this pattern has not been repeated in the U.K. market. New orders for British buyers fell by a marginal 1 per cent in the three months under review.

New orders

One of the effects of this fall was to produce an improvement of only 9 per cent in total net new orders, when balanced against the high export returns. The new orders for the U.K. placed with the engineering industries are still running below that for 1969 and 1970.

It is possible, however, that the measures introduced by the Chancellor in July to reinforce a reflationary Budget will begin to work through into improvements in the industrial home order book in later months this year and early in 1972.

The resurgence which has taken place in business in overseas markets is reflected in a 5 per cent increase in export orders held on hand by the engineering industries at the end of August.

This rise, counter-balanced by the position in U.K. markets, where there was no improvement, produced an overall 2 per cent increase in orders on hand.

There was a small rise of 2 per cent in export deliveries, but this was offset, by a 2 per cent fall in home market deliveries resulting in a general 1 per cent fall.

In all, the level of total deliveries in the period June-August remained about the same as the 1970 average.

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DE-REGISTRATION ROW

TUC to call 18 unions to account

BY JOHN ELLIOTT, LABOUR EDITOR

FIRST steps towards possible federation of Health Service employees and the TUC of Employees and the Civil Service unions which remain registered under the Industrial Relations Act were taken yesterday at an angry meeting of the TUC general purposes committee.

The meeting was one of the most acrimonious held recently under the leadership of Mr. Hugh Scanlon, of the engineers, proposing an extreme line that all the 66 unions which have not yet taken non-registration action should be immediately suspended. But he was ruled out of order under the TUC's constitution which provides for unions to be called first before the TUC General Council in advance of any disciplinary action.

But this would be the start of the slippery slope, with other unions claiming that they must be registered as many want to be - if more than one or two exceptions are to be made.

Judging by the TUC's figures presented to yesterday's meeting, the union leaders should have been in a happy frame of mind, because already 71 unions representing nearly half the TUC's 10m. membership had taken non-registration action in line with TUC policy. But these figures do not include key names, among them the country's largest union, the Transport Workers, which is insisting on changing its rules to allow de-registration.

Others are delaying decisions to see how the policy works out. There are 24 of these with some 2.5m. members - including the National Union of Seamen, which claims it needs registration in order to use the Act to close down early next year, after the Act outlaws existing closed shops to remain in business. This, judging by the mood at the TUC yesterday, is regarded as insufficient reason - especially since Equity, with a similar problem, has de-registered. This puts the seamen in line for possible suspension by the General Council.

Next there is the National Graphical Association, which appears to have convinced the TUC that, while it is totally opposed to the Act, and unlike the seamen, would not use the Act's provisions, must remain registered because of interlinked legal and financial problems.

Mr. Vic Feather, TUC general secretary, said yesterday that if there was a unique problem we could make a unique decision, appearing to imply that the TUC's "instruction" not to be registered, which was agreed at the recent Blackpool annual Congress, could be waived for the NGA.

The other three sizeable unions are the National Union of Bank Employees, the Con-

tinued on Back Page

No brotherhood

These 24 unions are to be urged by the TUC to make their minds up quickly. Finally there are nine unions with 2.1m. members, including the TGWU and the Union of Shop, Distributive and Allied Workers, which are taking steps such as organising rules revision conferences to allow them to de-register - but may not be able to do so for many months.

All the union leaders' traditional lack of brotherhood came out yesterday. Sir Sidney Greene, of the National Union of Railwaymen, launched a thinly-veiled attack on Mr. Jack

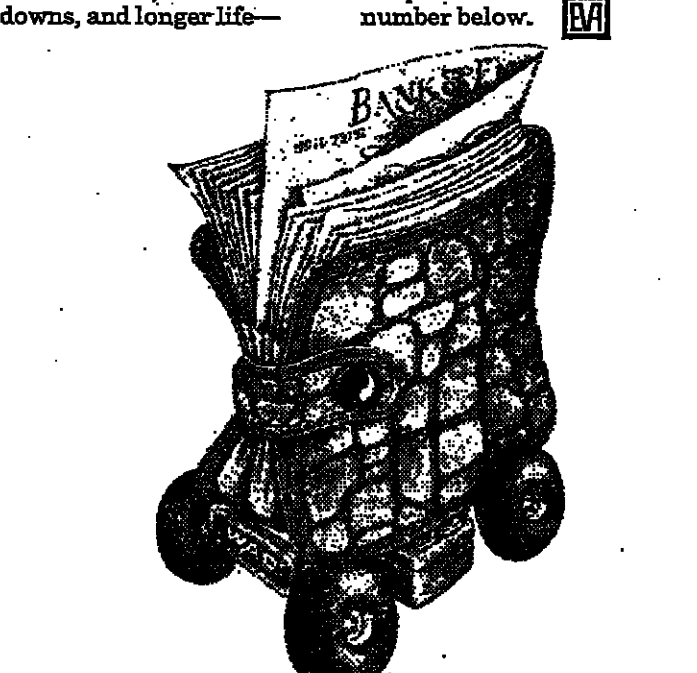
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European
NewsSchiller
expects
to meet
Giscard

Christopher Lorenz

FRANKFURT, Oct. 25.

FR. KARL SCHILLER, the German Economics and Finance Minister, expects to have productive talks with his opposite number, M. Giscard d'Estaing, at tomorrow's meeting in Luxembourg of the finance and economics ministers of the German Minister.

There had been reports in the few days that M. Giscard did not intend attending tomorrow's meeting, and would prefer to talk to the visiting delegation in Paris, but German Minister is clearly going to attend.

Prof. Schiller wants to see him for individual talks, and the Council of Ministers, it was not clear to-night.

Prof. Schiller's statement was at a Press conference in Frankfurt, at which he also announced that the Ministers of the Group of Ten would meet on November 22-23. He did not say where the talks would be held, but was close to him indicated Rome is the most likely place.

The Minister told the Press conference held after a meeting of the Bundesbank Council in which he took part, that an emotional realignment of titles should be achieved as far as possible. Otherwise the aim of certain economies will make an eventual realignment less satisfactory from the German point of view. Delay would also increase the danger of countries taking protectionist measures.

Coordinate

Reginald Dale, Common Market Correspondent, adds from Luxembourg: the Common Market Ministers of Finance met here tomorrow primarily to coordinate short-term economic policy in the framework of the Six's planned move towards economic and monetary union. Short-term economic co-operation is one of the elements of the plan that have not yet fallen victim to the monetary crisis.

The main aim of the meeting to approve a Commission report on short-term economic policy for 1972, which is intended to provide the basis for better co-ordination between the Six in the utilisation of their national budgets for next year.

The Ministers are to meet in Paris on Thursday week (November 4), to discuss wider aspects of international monetary problems at a session of their regular quarterly discussions on strictly informal basis.

But the expected presence of tomorrow of both Prof. Schiller and M. Giscard has given rise to some speculation that they may be contacts outside a formal council meeting tomorrow on the differences of view on monetary affairs between their two governments.

Negative growth rate
predicted for Germany

BY MALCOLM RUTHERFORD

BONN, Oct. 25.

WEST GERMANY may have a negative growth rate for most of the next year, according to the latest joint report of the country's main economic institutes, published to-day. The report predicts a continuing fall in investment, in new output to industry and in the use of industrial capacity, as well as a perceptible rise in unemployment. In these circumstances, it says, the immediate aim of economic policy must be the avoidance of recession.

The institutes, nevertheless, are notably favourable to the present policies of Prof. Schiller, the Economics Minister, and support the floating of the D-mark because they claim it will contribute to reducing domestic inflation.

If necessary, they say, the Bundesbank should be ready to sell off some of its massive dollar holdings in order to keep the de facto revaluation rate against the dollar high.

The justification is that this would help domestic stability by reducing the possibility of rising prices because of increased competition from abroad, and would also bring down the level of wage settlements. It would further help towards an improvement in the American balance of payments, because Germany would be more open to American exports.

The institutes' projections are based on three assumptions: 1—The dollar revaluation against the dollar will remain at around 10 per cent., either by continuing to float or by the fixing of a new parity.

Hungary's 'reformed'
economy in trouble

BY MICHAEL SIMMONS, EAST EUROPEAN CORRESPONDENT

HUNGARY'S decentralised methods of economic management, which have been closely watched throughout Eastern Europe and by some planners in the Soviet Union as a possible model to be copied, are running into serious difficulties. Mr. Rezo Nyers, one of the country's most senior economists and politicians, said during the week-end that "an enormous number of problems" in the economy were awaiting clarification and that "fundamental decisions" had to be made in economic policy-making.

Economists and party leaders attended an economic meeting in the Budapest Parliament last Friday, at which the Prime Minister, Mr. Jenos Fock, stated that important problems—often stemming from an irregularity of investments—had arisen since the reform peculiar to Hungary (known as the new economic mechanism) was introduced in early 1968.

Presenting a detailed analysis, Mr. Fock said that while basically the economy was developing soundly, weaknesses in Government measures had provided opportunities for what he called "economic crimes." A great deal was heard about "selfishness, greed, and hoarding" and it seemed that such phenomena were on the increase.

Investments last year, he went on, had gone up twice as fast as the national income. As a result, difficulties were being experienced in the national Budget and in the balance of payments. Too frequently, investments were being embarked upon which were not feasible either technically or financially.

Another problem was caused by the excessive mobility of

2—The Government will not make use in 1972 of its available anti-cyclical funds to prime the pump.

3—Interest rates will continue to fall.

The second assumption is highly questionable; however, on this basis the institutes project that for most of next year there will be no real growth in the gross national product. Only a possible recovery in the latter part of the year will bring the real growth for the year as a whole to 1 per cent.

Industrial investment in new equipment next year will be about 7 per cent. down in real terms on 1971. Private consumption will rise nominally by 6.5 per cent.—after 11 per cent. in 1971, but in real terms by only 2 per cent. The annual rise in the cost of living will slow down, but only to about 4.5 per cent.

Rising unemployment will continue for some time to come, though admittedly from a very low base. The institutes suggest that the number of employed will drop next year by about 1 per cent. Much depends, however, on the outcome of wage negotiations with the metal working union and the public services union.

To avoid a recession, the majority of the institutes recommend an easing of credit policy and an early repayment of the temporary surcharge on income and corporation tax. Both these measures are likely, at least in the course of next year.

On the international monetary system, the institutes repeat

labour. "Harmful migration of labour," the Prime Minister said, "damages labour discipline and lax labour morale increases this fluctuation."

Hungary had a trade deficit of \$450m. in a turnover of just over \$2,500m. In the first six months of this year. A third of this deficit occurred where it hurt most—with the hard currency area of Western Europe.

Exports overall went up by only 1 per cent., which must be considered a severe set-back to Hungarian planners who work in the knowledge that earnings from sales abroad make up more than a third of the country's GNP. Imports, by contrast, went up by 24 per cent. in the period under review compared with the first half of last year.

Matesa
officials
pardoned

By Our Own Correspondent

MADRID, Oct. 25.

THE SPANISH Supreme Court has decided to stay proceedings against several ex-Ministers and leading government officials allegedly involved in the Matesa company's misuse of about \$60m. worth of export credits granted by the State-controlled Banco de Credito Industrial.

The court dropped the charges against the accused under a general pardon decreed by General Franco several weeks ago and which provided for the release of 3,006 persons—about one-third of the total prison population in Spain—as well as the automatic stay of proceedings in all pending cases.

The pardon now announced by the Supreme Court in the Matesa case includes the former Minister of Trade, Sr. Garcia Monco, the ex-Minister of Finance, Sr. Espinosa San Martin, the ex-Governor of the Bank of Spain, Sr. Navarro Rubio, as well as the directors of the medium- and long-term credit institute, the Banco de Credito Industrial and other high-ranking officials who, if convicted, would have faced sentences of up to two years' imprisonment and heavy fines "for negligence in the administration of public funds."

However, the Supreme Court has not dropped the charges against several low-rank employees of the Banco de Credito Industrial and against the Villa Reyes brothers and other members of the Matesa Board of Administration.

Labour unrest
continues

By Our Own Correspondent

MADRID, Oct. 25.

THE LABOUR situation in Spain showed few signs of improvement to-day after several weeks of strikes and protest demonstrations. The impossible lock-out of workers of the SEAT car factory in Barcelona ended this morning. The men of the morning shift showed up for work and there were thorough checks at the factory gate—the management claimed this was to avoid the smuggling in of "professional agitators."

Several thousand workers started sporadic strikes as soon as they had reached their workshops. They later resumed work but new strikes were declared by the workers in other parts of the factory. So far the management has taken no action against the new strikes.

Coal mining in Asturias has practically come to a standstill after several weeks of strikes and lockouts. The state-controlled HUNOSA company has announced a new lockout until November 1 of several thousand workers on strike in the Nalon pits.

THE NIXON ECONOMIC PLAN

Italy counts the cost
in terms of jobs

BY NORRIS WILLATT IN MILAN

THE 10 PER CENT. U.S. import surcharge imposed by President Nixon as part of his "crash" programme to solve the American balance-of-payments crisis could, directly or indirectly, cause loss of employment to 150,000 Italians.

This is a preliminary figure projected by the Italian Government, which like others in Western Europe has been trying to calculate the cost of the American emergency programme to its economy. The bald statistic itself is more startling than, in fact, the situation warrants. Not so many people are expected to lose their jobs altogether. For many, the impact may mean only short-time working, or merely the end of overtime.

Dismay

Nevertheless, the surcharge is viewed with dismay in Italy, even if the effect of it upon the national economy is less drastic and has received less publicity than the effects on such countries like Japan and West Germany. Moreover, the Italians are particularly mortified by the fact that the new obstacles to international trade now being imposed by the U.S. have come when Italy's exports to that country have reached close balance with imports.

In 1970, as the result of a sustained export drive, Italian shipments of merchandise to the U.S. market amounted to some \$1,554m. Imports from the U.S. were valued at \$1,534m. This produced a trade deficit of \$180m., but it was the third year in a row in which the exchanges had been quite close to equilibrium. This situation was in sharp contrast to that in the middle 1960s. In 1963, for example, Italy's exports to the U.S. amounted to less than \$500m., and imports were more than \$1,000m.

Thus, in striving for equilibrium Italy has come a long way in the past decade, largely by expanding exports in a constantly broadening two-way exchange. Now, it seems, the process is in for a sharp check. In taking this sober view, Italian economists, businessmen, Government officials, are assuming that the import surcharge will be preserved, in one form or another, for some time after the emergency phase. They fear it may be followed by other more severe import bars.

Official concern on the subject was expressed recently by the Italian Minister of Labour, Signor Donat Cattin, who also explained how he had arrived at the figure of 150,000 workers who were likely to suffer. The surcharge, he said, would have an impact on about 25 per cent. of Italy's total exports to the U.S., worth between \$250m. and \$300m.

Direct effect

Working back from this figure, the Government had reckoned that this would cause a drop in employment of between 40,000 and 50,000 people in the export industries, some of whom would be laid off, others put on short-time, and others deprived of current overtime. But this would be only the direct impact; there could be indirect effects on suppliers, shippers and others which could bring the total affected to 150,000, or even to 170,000.

This would make more difficult the task of the Government, which already has unemployment and under-employment problems on its hands because of a slow-down in the domestic economy. In recent years, the U.S. has, in fact, been an important safety-valve for its increasing absorption of Italian exports have helped to relieve the pressures for social reforms building up within the organised labour movement on the Peninsula. Now, the sur-

charge and its effects threaten to add to the pressure.

According to Signor Cattin, Italy can take a measure of comfort from the fact that its exports to the U.S. are heavily weighted in favour of consumer goods, such as shoes, stockings, clothing, textiles, which are less likely to be affected by the surcharge than producer goods, especially as the latter will also be hit by President Nixon's plan to grant tax relief to domestic concerns which buy their machinery and equipment in the U.S.

Consumer goods

This is some consolation, but in the industrialised north of Italy a far from insignificant share of export business with the U.S. is in the form of machinery and equipment. Thus, recent statistics for the Province of Lombardy, of which Milan is the hub, showed that by far the largest category of exports to the U.S. in 1970 consisted of products of this type. With a total value of some \$83.5m., they accounted for almost 22 per cent. of the total exports to the U.S. by the Province. The second most important category, mineral oil and its derivatives, came to only \$28m., or 7.3 per cent. of all exports.

The same survey also showed that certain types of consumer goods are also important dollar earners for Lombardy industry, including shoes and related products, with a 1970 export value of some \$17.3m.; synthetic textiles (\$16.7m.); hosiery (\$12.1m.); silk and silk waste (\$10.8m.). Quite aside from the latest "crash" programme, such products as these have for some time been under the shadow of protectionist propaganda in the U.S.

For this reason, the textile and clothing manufacturers of the Milan area have not been greatly encouraged by the news that

some of their greatest competitors, such as Japan, Hong Kong, Taiwan, have agreed to limit exports to the U.S. in return for removal of the 10 per cent. surcharge from most types of textiles. They still will labour under cost disadvantages, especially taking into account the devaluation of the dollar.

Dollar devaluation will also hurt the shoe industry of the area, which sends about 20 per cent. of its exports to the U.S. Other industrial communities in the region also have their worries. For example, in Pavia, whose exports of shoes to the U.S. in the period 1963-1970 increased from \$2.7m. to \$5.7m. per annum (more than 33 per cent. of the total of shoe exports to the U.S. from Lombardy), the surcharge has aroused pessimism. The reaction of manufacturers of shoe-making machinery and sewing machines has also been one of pessimism.

Silk decline

In Cremona, concern is great in the hosiery industry, though it is also shared by exporters of shoes and textiles. Como, the leading silk-producing community in Italy, has already this year suffered a decline of over 5 per cent. in value terms and over 21 per cent. in volume terms in its exports to the U.S. This is partly because of the American recession, and partly through growing competition by Japan, West Germany and Britain.

In Mantua, the industries most likely to be hurt are those making dolls and sun-glasses: the former directs between 35 and 40 per cent. of all its exports to the U.S., and the latter 61 per cent. Brescia, the centre of a major arms industry, about 30 per cent. of whose total exports of some \$18.4m. in 1970, were U.S.-bound, also is expecting a setback.

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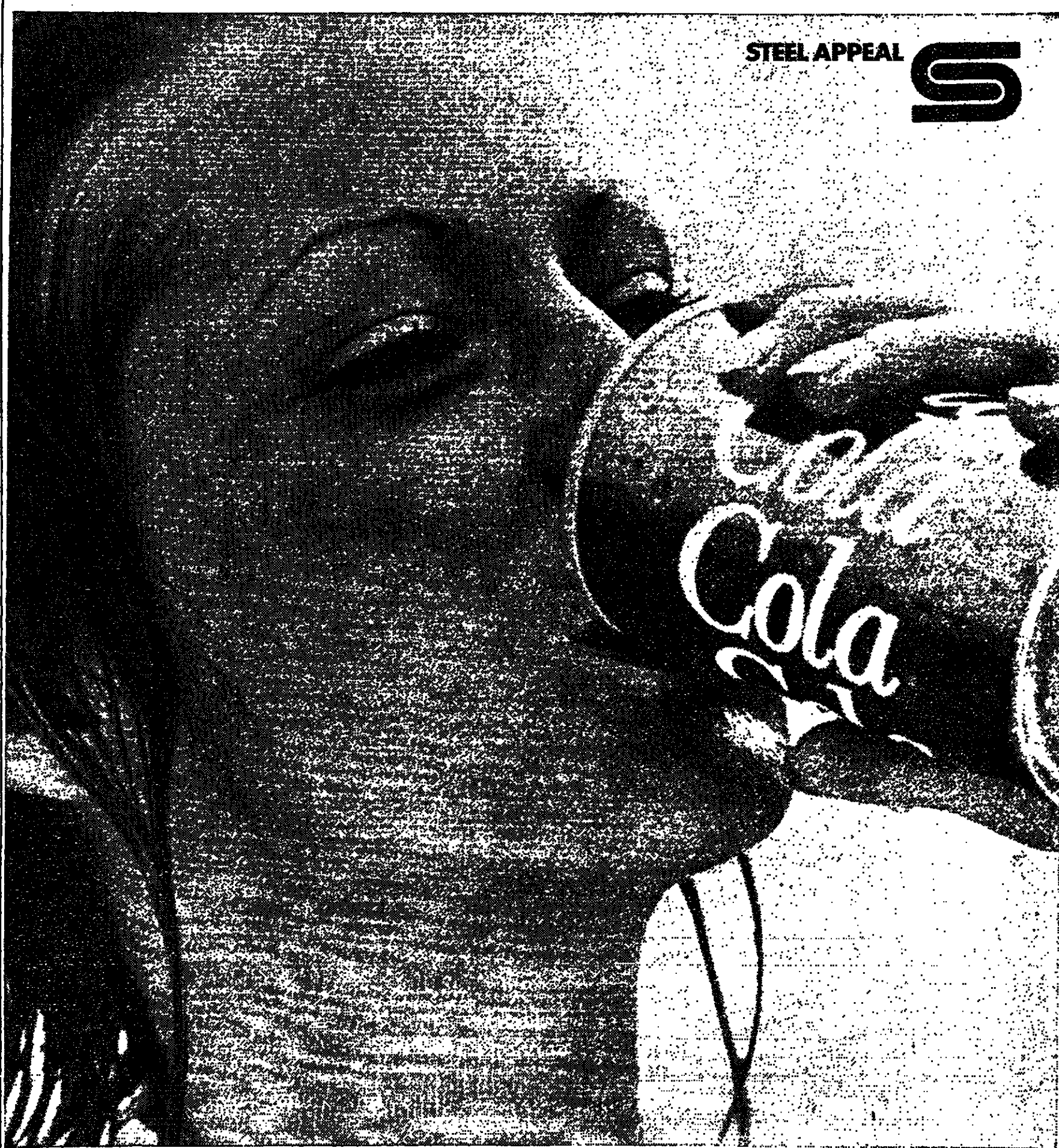
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Common Market Debate

THIRD DAY

Mr. Geoffrey Rippon, the Government's chief negotiator, admitted in the Commons yesterday that the total cost of entry into the EEC to Britain's balance of payments could be as high as £500m. a year by 1977. Under pressure from the Labour benches, Mr. Rippon agreed that he had given this figure to lobby journalists—though, he hastened to add, he had also told them that the "dynamic effects" of entry could bring an overall improvement of £1,700m.

The information aroused renewed interest in the continuing debate even though Mr. Rippon, with due modesty, claimed no precision for his estimates.

He only guaranteed: "The terms we have agreed ensure that there will be no sudden or intolerable burden on our balance of payments before we have the full advantage of the dynamic effects of entry." But what would happen after 1977? "Irrelevant,"

retorted Mr. Rippon. Irrelevant because no decision could be taken against the vital interests of any member.

Mr. George Cunningham, from the Labour backbenches, thought that only went to prove that it would be impossible to change the Common Agricultural Policy. And amid great hilarity, Mr. Rippon replied: "I listened to your apology. This is mine."

"Don't apologise," Labour MPs shouted in pardonable mirth. And, in fact, Mr. Rippon, in a patient and peaceable mood despite the interruptions, did not.

The atmosphere was markedly less forgiving during Mr. Michael Foot's speech from the Opposition front bench. Dr. David Owen, a former Labour junior Minister and a pro-Market, was advised to join the Conservatives by some of his

Labour colleagues when he interrupted Mr. Foot—"before you get carried away with your own rhetoric." And later Mr. Foot reminded anyone who needed it: "I voted against my party on occasions. But I cannot recall ever doing it to keep a Tory Government in office."

Mr. Foot warned the Government: "The instinct of the British people ought not to be despised by those who seek to govern them." That instinct had survived the pro-Market campaign, he said, mainly because it recognised the loss of sovereignty that would ensue. The Commons and the people would have less power over a wide range of policies, said Mr. Foot. With Mr. Heath at the helm, the country was now watching "the most daring display of seamanship since the wreck of the *Hesperus*."

Philip Rawstone



RIPPON... no decision can be taken against the vital interests of a member country.



FOOT... decisions taken by undemocratic bodies.

Rippon admits balance of payments cost could be £500m.

MR. RIPPON said he had noted the special concern which had been shown expressed about New Zealand had sent a telegram to the Commonwealth.

It was significant that at the end of the negotiations, Mr. Rippon said that the New Zealand returned Services Association had told the British High Commission in New Zealand that the author of the telegram spoke only for 6,000 members of the Auckland branch, and not for the whole association, which did not share in the action taken.

Commenting on a story in Sunday's Observer about Commonwealth sugar, Mr. Rippon said: "They have the history wrong and more important they have the figures wrong as well."

The Commonwealth governments themselves were satisfied with the position. "We shall use to shape a new international sugar agreement appropriate to the circumstances which lie ahead."

"The Community has shown itself very willing, as in the case of dairy products, to think in terms of international commodity agreements. It is in this way we can best safeguard the primary producers in the world."

Mr. Rippon said that those MPs who accepted the principle of membership, as distinct from those who did not want to join at any price, could hardly say that Britain should stay out of New Zealand would lose heavily, because they could not provide better terms than they had accepted.

Mr. Rippon referred to a claim by Sir Robin Turton (C. Thirsk

stemmed "from the mistaken conception that the Community is inward-looking and protectionist."

He said: "I do not believe this is the fact. In truth the Community is in the forefront of the developed nations in its regard to trade and aid with the developing world."

"I foresee in the future that Britain's developing Commonwealth partners who stand most in need will have continuing relationships not only with us but also with our prosperous European partners both in the fields of trade and aid, including investment."

The House should also take note of EFTA's general satisfaction.

Dealing with fisheries Mr. Rippon said that agreement might only be reached after enlargement, "the balance sheet which were needed and acceptable to all concerned."

"We will not agree to any arrangement which does not satisfactorily protect our legitimate interest," Mr. Rippon said.

"There is a clear understanding that we must either have an agreement on a new regulation which is satisfactory to all the applicants as well as the existing members, or if we cannot achieve that, the Community will have to accept we will maintain the status quo."

"If we do that, any question of negotiation after enlargement would be dependent on agreement by all parties concerned."

After Mr. Rippon had turned to contributions to the Community Budget Mr. Denis Healey, Foreign Secretary, intervened. Mr. Rippon had

spoke in the House on December 16, said Mr. Healey.

He had repeated this figure to journalists on June 24. It was in the original draft White Paper but when Mr. Healey had put it to the Home Secretary that it had been excluded from the final version only at the last minute he had been unable to deny this.

Mr. Rippon said one figure given was that we should have an overall improvement of £1,700m. in balance of payments by the end of the period. But as well as quoting a plus figure of £1,700m. they had also quoted a minus figure of £500m.

More and more people are coming to realise that the real issue is whether Europeans in the 20th century are still creative enough to add another element to their political activity, whether we can have some form of European unity without sacrificing our national diversity," Mr. Rippon said.

What happened after 1976 was irrelevant because no member of the Community was going to impose an unacceptable burden upon us or upon any other member.

"In practice no decision can be taken against the vital interests of a member country. That is really at the heart of the various arguments on sovereignty and the provisions of the Treaty of Rome."

On our decision on Thursday depends whether we catch up or whether we cast adrift. It is a decision only Parliament can take. We have a great responsibility and a great opportunity. "In this House this week we stand to gain for future generations through peace, that unity of Europe which our forebears vainly if heroically sought by arms."

Mr. Wilson asked why, if Mr. Rippon had given them the very wide range of figures which he claimed, all the leading journalists writing for the "heavies" had seized on one particular figure.

Mr. Rippon said that the balance sheet which were needed and acceptable to all concerned.

Mr. Wilson pressed Mr. Rippon on figures he had given to journalists which had not been given to the House.

Erosion of sovereignty, warns Foot

MR. FOOT said it had been said by some newspapers that the debate Parliament had had in the last days had been boring.

"Maybe some of those who said that in the newspapers had not actually listened in to the debate. Perhaps they had taken it on lobby terms."

Mr. Rippon's speech seemed to suggest that everything was now plain sailing on the subject of New Zealand, said Mr. Foot.

Mr. Foot said he was concerned about the views expressed by the British people and their rights in this matter and there was loud Tory laughter after a Tory MP shouted "Why do you need a Whip then?"

Dealing with arguments for entry Mr. Foot said it appeared to be curious to argue first of all that the main reason for going in was because great decisions were going to be taken in Europe, and at the same time to argue that our entry into Europe was not going to involve any erosion of essential sovereignty.

Mr. Rippon had said that Britain should not fear any erosion of sovereignty because the House might have changed his mind. There were many Government MPs opposite who had changed their minds, including Mr. Peter Walker (the Environment Secretary), and they were perfectly entitled to do so.

making up their own minds on this subject.

"Of course, they look and see what is said by their political advisers. I am sure they have their own judgment in these matters. It is wise for MPs to respect that judgment and to respect the processes by which they have reached it."

He suggested the reason the public had not accepted the view of the Government was partly because Government MPs had not sought to present the argument in its honest merits.

The Government should try to present its case on its merits rather than to say that someone on the Opposition side of the House might have changed his mind. There were many Government MPs opposite who had changed their minds, including Mr. Peter Walker (the Environment Secretary), and they were perfectly entitled to do so.

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not be whether the majority is going to override a single nation, but whether some nation, which is highly dangerous."

Mr. Heath had said not long ago that he wanted to do the "people's choice" and to be only with the full-hearted consent of the British Parliament and people.

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Regional planning changes

By Richard Evans, Lobby Correspondent

A comprehensive reorganisation of the headquarters planning group and the regional offices of the Department of the Environment is to be inaugurated next month to ensure that the Government machine is capable of implementing environmental policies.

The new arrangements cover all aspects of environmental planning in both town and country, including regional planning and development and land-use and transportation policies on the local, regional and national scale.

One result will be to decentralise much of the planning work to regional offices in 1977.

Regional offices will each be headed by an under-secretary known as the regional director, who will also be chairman of the local regional economic planning Board, which provides information and advice to the regional economic planning councils.

Within each region office work will be organised into three main groups of transportation, planning and housing. The new arrangements will take effect on November 1.

The Environment Secretary, Mr. Peter Walker, said yesterday that the new structure would enable the Government to take more comprehensive view of the development of the regions, and it would have a major impact on the Government's regional policies.

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Shots from de women's car

LORD BALNIEL, Minister of State, Defence, describing to the House the incident in which two women were shot dead in the Lower Falls area of Belfast early on Saturday said that the car in which they were travelling was "broken from inside."

"Two shots were fired from inside the car towards soldiers in Cape Street. Three soldiers returned a total of nine rounds."

Once the crowd had been dispersed from around the car, the two women, Mrs. Mary Meehan, 30, mother of four, of Bantry Street, and her sister, Miss Dorothy McGuire, 19, of Westrock Road, were found shot dead in the back seat.

Mr. Jock Stallard (Lab., St. Pancras N.) said: "Earlier reports of this incident over the official media, television and radio and any spokesman to the effect that the women were dressed as men and were described as guerrillas."

"Photographs published since, and statements made from the scene of this terrible tragedy show clearly that these women were dressed in gaily-coloured blouses."

"They were dressed as many thousands of young women would dress in this country for an ordinary evening out."

"Statements made from the same scene of this tragic incident show quite clearly that no shots were fired from the van. In view of this will you initiate an immediate and comprehensive inquiry into the incident?"

Lord Balniel said: "There has, of course, been an inquiry by the Special Investigation Branch of the Royal Military Police, and the military police will be made available to police if they require it."

"I understand that one was wearing a jacket and the other a jacket and trousers. I know this is a matter which has been argued in the past, but it is really irrelevant. What matters is that the report shows that the women were in the car and that was the reason for the returning."

Mr. George The Defence Secretary urged Lord Balniel to "more positively and declare there will be the fullest possible inquiry into the facts" in view of the apparent conflict of evidence.

Lord Balniel replied that had already been an inquiry conducted by the military police, and that a report would be available to the police matter would be before courts in Northern Ireland.

Mr. Thompson asked if there had been any change in instructions given to the Army on their might or might not be there any truth in the allegation that there was an instruction to fire on suspicion?

Lord Balniel said there had been no change in the rules available to the troops.

Mr. John Davies, Secretary of Trade and Industry, said he expected to publish the results of the Bolton committee, investigating into the problems of businesses, on November 3.

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Davies reconciles car industry jobless with rising demand

By JUSTIN LONG, PARLIAMENTARY CORRESPONDENT

THE paradoxical situation of both expansion and rising unemployment in the motor car industry was explained by Mr. John Davies, Minister for Trade and Industry, in the Commons yesterday.

Mr. Davies said that, last August and September taken together, home car registrations were about 36 per cent. above corresponding figures for last year, and compared with an increase of 8 per cent. in the period January to July. August car exports were nearly 10 per cent. up on August, 1975.

From the Tory backbenches, Sir Gerald Nabarro asked at question time if the Minister could explain how it was that continuous expansion in the industry had not yet succeeded in halting the increase in unemployment in all the principal motor manufacturing areas.

Mr. Davies suggested that it was common ground that rising consumption brought about an increase in manufacturing industry only with some time lag.

"And at the outset of any boom in consumption, the first element which is drawn on is existing stock," the Minister went on. "So the effect on unemployment is always normally delayed."

Encouraging prospects for manufacturing industry were also seen by Mr. Anthony Grant, Parliamentary Under-Secretary for Trade and Industry, when he replied to Tony Benn's question expressed particularly about the position for Merseyside.

Merseyside was well placed to take advantage of the Government's measures for the growth of the economy, said Mr. Grant.

When the Minister went on to maintain that the Government had done more to expand the economy than any previous Government had done, he was

heavily challenged from the Labour side.

Rejecting charges of complacency, Mr. Grant stood firmly by his views of the prospects and blamed the previous Government for existing difficulties.

U.S. tax credits

Representations in the "finest terms" have been made to the U.S. Government concerning its new system of tax credits on manufacturing plants being restricted to plants manufactured in the U.S., Mr. Davies assured MPs.

Mr. Jock Bruce-Gardyne (Con. S. Angus) contended that these tax discriminations were an outrageous breach of the GATT.

The Minister said he had not yet had an official response to his representations, but he turned down any suggestion of reprisals by Britain as a way of dealing with the issue. Reprisals could lead to a serious downward spiral in international trade. He did not want to do anything that would encourage a trade war, and hoped that the "flexibility of all interests would help reach a conclusion in this difficult matter."

From the Tory backbenches, Mr. Kennedy's next speech should concentrate on the "iniquities

making up their own minds on this subject.

"Of course, they look and see what is said by their political advisers. I am sure they have their own judgment in these matters. It is wise for MPs to respect that judgment and to respect the processes by which they have reached it."

He suggested the reason the public had not accepted the view of the Government was partly because Government MPs had not sought to present the argument in its honest merits.

The Government should try to present its case on its merits rather than to say that someone on the Opposition side of the House might have changed his mind. There were many Government MPs opposite who had changed their minds, including Mr. Peter Walker (the Environment Secretary), and they were perfectly entitled to do so.

Mr. Foot said he was concerned about the views expressed by the British people and their rights in this matter and there was loud Tory laughter after a Tory MP shouted "Why do you need a Whip then?"

Dealing with arguments for entry Mr. Foot said it appeared to be curious to argue first of all that the main reason for going in was because great decisions were going to be taken in Europe, and at the same time to argue that our entry into Europe was not going to involve any erosion of essential sovereignty.

Mr. Rippon had said that Britain should not fear any erosion of sovereignty because the House might have changed his mind. There were many Government MPs opposite who had changed their minds, including Mr. Peter Walker (the Environment Secretary), and they were perfectly entitled to do so.

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Japan's

from
the
Financial
Times
Tuesday
October
26
1971

are
talking
about
labour

AFRICAN nationalists
in Guinea
like to stop fighting
and return to the war
in Cabral, leader of the
Independence Party, said
yesterday. A con-
clusion of such negotia-
tions, he would be
accepting the continuation
of the rule in Guinea or the
Verde Islands.

IN his first policy statement
since the announcement of his
appointment as Governor of the
Bank of Israel (to succeed
veteran David Horowitz) Mr.
Moshe Sandberg, to-day came
out strongly in favour of a cut-
back in the expenditure of all
Government departments in-
cluding the Ministry of Defence.
Such cutbacks are essential to
prevent deficit financing in 1972-
1973, he declared.

According to Press reports the
Finance Minister, Mr. Pinhas
Sapir estimates expected in-
come in 1972-73 at the equivalent
of \$1,500m. whereas the budget
submitted for approval by the
various ministries aggregated
\$2,000m. If the next budget is
not balanced it will result in
runaway inflation, Mr. Sandberg
warned.

Speaking on the occasion of
leaving his current job of special
adviser to the Minister of
Finance, Mr. Sandberg high-
lighted a number of outstanding
features in the Israeli economy
—including the shortage of
workers which he estimated at
22,000. (A proposal was put
forward this week to mobilise
high school children for ten days
citrus picking during the height
of this winter's season since it
is felt that drawing a very sub-
stantial additional number of
workers from the occupied areas
for this task would disrupt the

Egypt prepares campaign to mobilise opinion

BY OUR OWN CORRESPONDENT

BEIRUT, Oct. 25.

THERE ARE signs of an
Egyptian-led campaign to mobilise
the Arab world psychologically
for the end-of-the-year deadline
set by President Anwar
Sadat.

Cairo to-day let it be known
that a decision on whether Egypt
will resume hostilities with Israel
will be taken at the end of the
present Muslim Holy Month of
Ramadan, which ends on
November 18.

The announcement was made
by Mohammed Abdel Salam al
Zayyat, Secretary General of the
Central Committee of Egypt's
State-controlled political organisa-
tion, the Arab Social Union
(ASU). Mr. Zayyat was com-
menting on a state last night by
Mr. Sadat that "the day is very
near when the Egyptian people
and we with them, will take
the conclusive decision which
will affect our destiny and that
of the generations to come."

The President spoke
in a message on the occa-
sion of the first meeting by the
newly-established local
councils in the districts which
aim at ensuring a measure of
decentralisation of the Adminis-
tration.

Radio Cairo, in highlighting
Mr. Sadat's message and Mr.
Zayyat's comment, said the em-
phasis by Egyptian leaders is on
the "nearness" of the decision
on the battle with Israel. The
radio made it a point to recall
that 24 hours previously, Lt-Gen.
Mohammed Ahmed Sadek, the
Commander-in-Chief, declared
during a visit to the Suez front
that the battle with Israel "is
closer than many people think."

A leading newspaper here to-
day, Al Hayat, reported that
President Sadat has turned down
an appeal by Yugoslav President
Tito for an extension of the dead-
line. The Egyptian President
was reported to have insisted

during his meeting with the Yugo-
slav leader in Cairo last week
the Middle East crisis must move
towards settlement by end of the
year whether peacefully or by
war.

The current visit to Moscow by
guerrilla leader Yasser Arafat,
which aims at ensuring new
arms supplies for the com-
mandos, had been arranged
through efforts by President
Sadat, according to informed
sources, which explained that
Sadat is eager, as part of its
current mobilisation campaign,
to re-establish the guerrilla move-
ment as an instrument of
pressure on the Middle East
crisis. A month before, a com-
mando delegation visited Peking
for two weeks and was reported
to have obtained a promise from
Chinese leaders for further mili-
tary assistance.

The most educated opinion
here is that the Cairo drive is
primarily for mounting enough
pressure on Israel to make its po-
sition more flexible on political
settlement. At the same time
President Sadat wants Egypt and
the Arab world at large to be
ready if hostilities are resumed
by next January.

Our Cairo Correspondent adds:
The prosecution to-day de-
manded the death sentence
against General Mohamed Fawzy,
Egypt's former War Minister,
when he went on trial before a
revolutionary tribunal presided
by three military judges. He
pleaded not guilty to charges of
treason in conspiring to over-
throw the regime of President
Anwar Sadat last May.

SHAH'S FEAST COST \$16M.

BY OUR OWN CORRESPONDENT

TEHRAN, Oct. 25.

IRAN PUT a price tag of \$16m.
on the cost of entertaining three
score monarchs and heads of
State at a 2,500 years of
Persian monarchy celebrations
10 days ago. This figure includes
\$6.3m. for the tent city at the
ancient winter palace of
Persepolis, \$2m. for publicity and
\$6m. for the building of the
prestigious Shahad monument
in Tehran. A further \$2.5m. was
spent on entertainment and a
dinner that included 90 baked
peacocks and quail eggs filled
with caviar (the only Persian
dish on the menu). Not
included in the \$16m. figure is
the cost of hotel building, a
sophisticated communications
network and much-needed infra-
structure around Shiraz and
Persepolis—items Iran reckons
will boost her tourist industry
and development programmes.
The statement came after reports
in the foreign Press that the ce-
lebrations may have cost up to
and over \$100m.

TANZANIA WARNS UGANDA AGAINST BORDER ATTACK

DAR ES SALAAM, Oct. 25.

TANZANIA to-day accused
Uganda of trying to annex part
of its territory and warned that
its forces would hit hard against
any attack over their common
border.

Latest threats by the Ugandan
military regime showed it no
longer recognised this inter-
national border, Mr. Jacob Nam-
fua, Tanzanian Information
Minister, said.

Yahya Khan appeals to U Thant

By Our Own Correspondent

KARACHI, Oct. 25.

PRESIDENT Yahya Khan has
urged the United Nations Secre-
tary-General U Thant to pay an
immediate visit to India and
Pakistan to discuss withdrawal
of troops from country borders.
President Yahya also suggested
that United Nations observers
should be posted on both sides
of the border to supervise such
a withdrawal and maintain the
peace.

His proposals were contained
in a letter sent on October 21,
the text of which was officially
released to-day in reply to
U Thant's offer of the United
Nations good offices for the
restoration of peace in the sub-
continent.

President Yahya recommended
the withdrawal of armed forces
and artillery along all frontiers
between India and Pakistan on
both East and West to at least
an agreed safe distance and
perhaps even to peace-time
stations. At the same time he
said that India was shelling
Pakistan and this must stop.

President Yahya said a public
statement by U Thant that he
intended to visit India and Paki-
stan would be most desirable. A
state of virtual war between
Pakistan and India had been in
existence "since March 1," the
President said.

The President emphasised the
"gravity of the situation as con-
firmed by Indian leaders on
October 19, threatening to
occupy and hold the Pakistan
border cities of Lahore and
Sialkot (in West Pakistan)."

Pakistan to-day claimed that
76 persons were killed when a
mixed force of Bengalis and
Indian soldiers attacked Mye-
ensingh on the north eastern
border between India and
East Pakistan. Several Indian
soldiers and a large quantity of
arms and ammunition were
also captured, a military
source claimed. The source
claimed that Indian
artillery pounded the area.

Reuter reports from Bremen:
The 9,565-ton West German
freighter Falkenberg now in Bom-
bay is carrying four chests of
hunting weapons and ammu-
nition consigned to East Pakistan,
a spokesman for the Hansa Line
said on Monday. The ship was
reported from Bombay to have
been prevented from sailing for
Chittagong because Indian dock
workers said it was carrying
arms for the Pakistan Army.

The Hansa Line spokesman
commented: "the hunting
weapons are destined for private
dealers in Chittagong. Nobody
could make war with such arms."

GATT to hear plea for 'Japan Round' tariff cuts

BY OUR OWN CORRESPONDENT

TOKYO, Oct. 25.

JAPAN hopes to win acceptance
for a "Japan Round" of tariff
reductions during the next meet-
ing of the General Agreement on
Tariffs and Trade (GATT) which
is scheduled to open in Geneva
on November 16, according to
usually reliable sources here
to-day.

The Japanese would like to
propose a package arrangement
among GATT members as a
means of countering the dangers
of a growing protectionism
throughout the world as a result
of President Nixon's dollar-
reference programme. As the
Japanese see it, the European
Community appears to be
moving towards establishment
of a regional bloc which would
curtail trade with Japan.

With the U.S. taking a stand
against the dramatic inflow of
Japanese products and the West
European countries protesting
that they have no intention of
allowing Japan to direct the

resulting surplus to the EEC
markets, Tokyo is beginning to
panic.

It is becoming doubtful, how-
ever, that Japan's proposal will
receive any encouragement, par-
ticularly since both the U.S. and
the EEC countries are aware that
the Japanese Ministry of Inter-
national Trade and Industry and
the Agriculture-Forestry Ministry
are strongly opposed to further
drastically reducing tariffs on
manufactured goods and farm
products in the near future.

Stronger ties

Preliminary testing of the con-
cept by Japan has revealed that
the Western nations see the
Japanese offer as merely another
form of the "one-way street"
which has disrupted markets in
North America and Western
Europe over the past decade.
Still, it may well be that Japan
will try to push the "Japan
Round" proposal. In the event,
Japanese Government officials say

favour an across-the-board tariff
reduction of between 10 and 25
per cent. after adjustment of the
tariff rates created by the
"Kennedy Round" package.
Behind Japan's thinking on
the chances of a "Japan Round"
is the concern that, by the time
Britain enters the Common Mar-
ket, the Japanese must have
much stronger trade ties with
the European Community.

A "Japan Round" would, if
accepted, go a long way toward
prevention of regionalism in the
world economy. It might also be
a good way of circumventing the
one major hurdle which has yet
to be surmounted in increasing
trade between Japan and the
EEC countries.
Japanese trade with the EEC
last year amounted to only about
\$2,800m. both ways. Only a
meagre 6 per cent. of Japan's
total volume of trade was with
the Common Market nations and
the EEC received less than 3 per
cent. of its imports from Japan.

Hong Kong SE row looms

BY OUR OWN CORRESPONDENT

Hong Kong, Oct. 25.

A MAJOR row could arise soon
in Hong Kong over the nature
of a "Watchdog" body to regu-
late the Colony's stock exchanges,
establishment of which has been
proposed by the Company Law
Revision committee.

The committee last month pre-
sented its first comprehensive
report on company law reform
to the Government. One of its
principal recommendations was
that an Advisory Board should
be set up to establish ground
rules for the stock exchanges.

It recommended a compensa-
tion fund, clearcut rules for the
registration and qualification of
brokers and the standardisation
of working hours and fees. It
did not, however, elaborate on
the form which the board should
take. It is understood that the
question of the Advisory Board
will not figure prominently
in the current series of
meetings of the Company Law
committee. Apparently, the com-
mittee feels that the onus now
lies with the Government to take
the necessary steps to control
the exchanges.

change. The FESE was set up in
rivalry to the eight-year-old
HKSE less than two years ago,
because the latter was reluctant
to expand to include new
members.

The FESE quoted all the
HKSE listed stocks, but recently
has attracted some listings of its
own. It now does a larger
volume of business than the
HKSE.

The concept of a federation
had the added attraction that it
would not run foul of another
of the Company Law Revi-
sion Committee's proposals—
that there should be no limit on
the number of exchanges. At the
moment there are three, the
HKSE, the FESE and the smaller
Kam Ngan. A fourth is planned
soon in Kowloon and there is
talk of a fifth in New Territories.

Many market observers here
are concerned that if the number
of exchanges and inexperienced
brokers is allowed to proliferate,
the opportunities for malpractice
will increase. There are only the
most rudimentary rules regard-
ing the qualifications of brokers
at present.

The point has now been
reached where market capitalisa-
tion of quoted companies is
approaching \$HK5,000m, and
turnover on a single day on all
three exchanges has topped
\$HK200m.

Essentially, the issue turns on
whether, given the friction be-
tween the two leading exchanges
they will be able to put their
own houses in order or whether
the Government will be forced to
production.

Uganda cotton sold at higher prices

By Our Own Correspondent

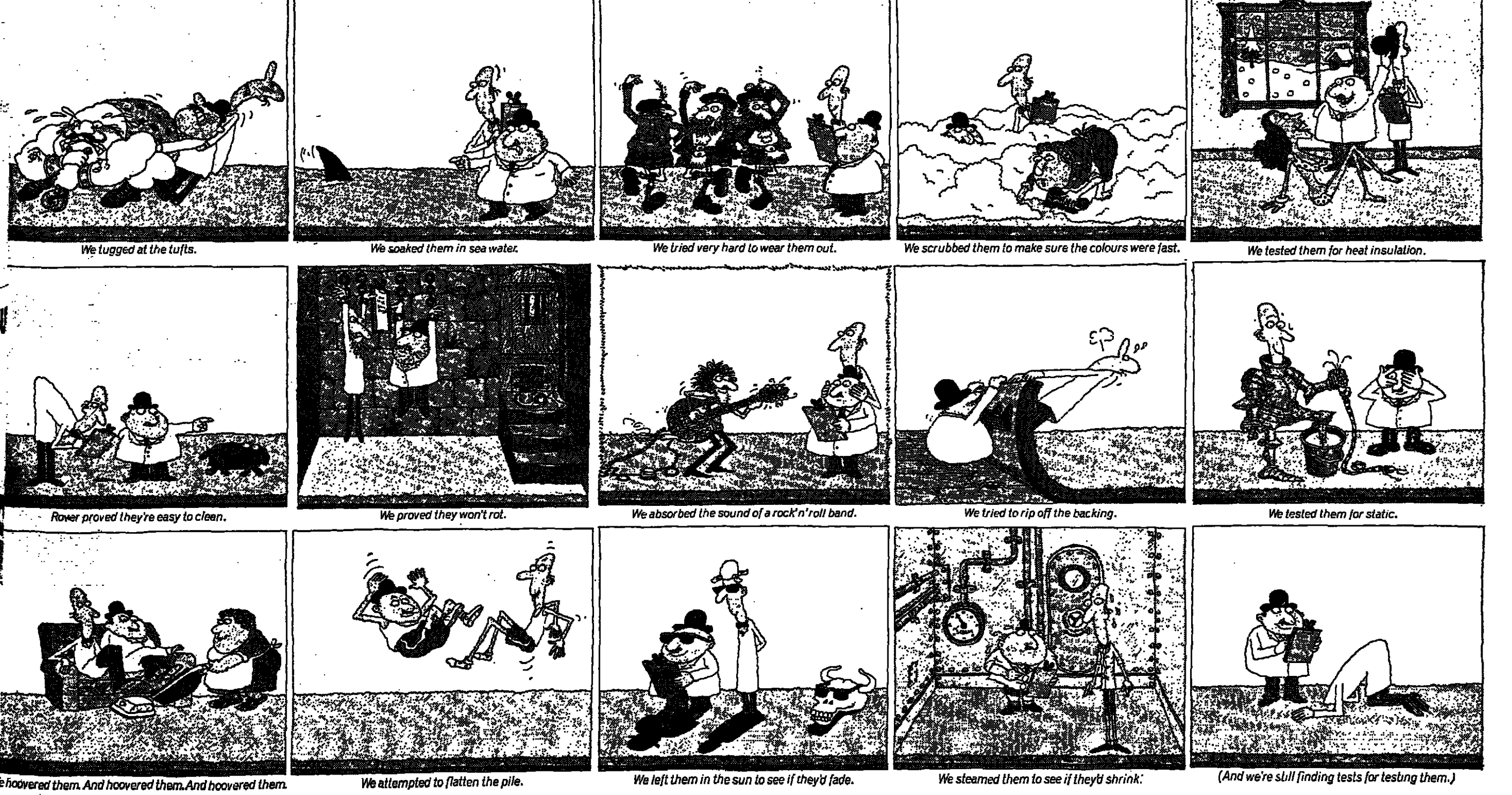
KAMPALA, Oct. 25.

UGANDA'S Lint Marketing
Board completed its current for-
ward auction programme to-day,
week having sold over 105,000
bales of cotton—from the new
crop which will be available for
shipment from November on-
wards.

Prices have risen steeply over
the six auctions and at last week's
sale the reserves were up to 12
cents per kilogram above those of
the previous sale two weeks ago.
Satu variety was sold at 552 cents
free on rail, and the longer
stapling BPA variety was quoted
against reserves ranging up to
605 cents.

As well, 5,006 bales of low-
grade BR cotton was sold at the
high level of 400 to 405 cents.
No further auctions are yet
scheduled, but the Board is
expected to reopen sales soon.

The Uganda Government has
announced that cotton growers
will receive one shilling 25 cents
per kilo for raw seed cotton, an
increase of five cents over last
season, to encourage maximum
production.



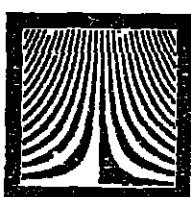
There's nothing you can do to our carpets that we haven't done already.

In all, Armstrong carpets are regularly
subjected to 68 incredibly brutal tests.
Under controlled laboratory conditions,
we simulate the most destructive treatment
office carpet could ever get.
Treatment far worse even, than that
meted out by the British Standards Institute
when they grade carpets.
Take our wear test, for example. That's
done on a machine specially designed for the

job by the Wool Industries Research
Association. Normally any carpet that can
take 50,000 revolutions from this machine is
reckoned to be okay for high traffic areas.
But after 100,000 revolutions, when
most carpets are worn through to the backing,
Armstrong high traffic carpet is still going
strong. (100,000 revolutions, by the way, is
equivalent to over 15 years very hard wear.)
Unfortunately, there's not enough

space here to detail the results of the other 67
tests. But we're equally chuffed about them.
Write in and we'll tell you why.
We'll prove that when it comes to office
carpet, anything you can do we can do worse.
Armstrong
Armstrong Cork Company Limited,
Chequers Square, Uxbridge, Middlesex.

I'd like to know more about office carpets.
Name _____
Company _____
Address _____
FT4



The Technical Page

EDITED BY ARTHUR BENNETT AND TED SCHOETERS

RESEARCH

Simple Rankine engine

PATENTS covering a new design of Rankine engine, of considerably simplified layout but still offering the low pollution characteristics of its class, have been granted to Dr. William Doerner, a research engineer of the Du Pont company by the U.S. Patent Office. The company has patented the design in most countries.

Rankine cycle engines use external combustion to heat a fluid which then expands to drive the engine. Laboratory tests at the company's central research department in Wilmington, Delaware, on a 20 hp engine have shown that several problems relating to size and complexity in the design of this kind of engine have been solved by the work carried out by Dr. Doerner.

Significant features of the new design include a cylindrical boiler and air condenser which rotate as a unit at a controlled speed. A turbine internal to these is driven in the contrary direction by a vapourised organic fluid under pressure.

The rotation of the condenser-boiler unit provides efficient heat

exchanges in both sections. It ensures that fluid in an annular chamber is boiled by an external burner while it is held to the outer surface of the chamber by centrifugal force. Speed of rotation is 2,500 r.p.m.

The vapour from the fluid is forced out of the annulus and taken to a nozzle ring to drive the internal turbine which spins at 27,500 r.p.m.—in turn operating a drive shaft to the external load. Once the work has been done, the vapour condenses and the liquid which results is forced back to the ring-shaped boiler.

No external blower is needed to force air over the condenser and as a result the engine is quite and demands little power for this section of its operation.

Elimination of a separate pump for the return of condensate to the boiler is a big factor in reducing internal power consumption and simplifying the design of the engine.

Dupont built the laboratory engine to demonstrate the new approach and does not intend to go into manufacture itself. The company is seeking licencees and

in view of the prevailing anti-pollution climate in the U.S. there seems to be little doubt that such clients will be found.

External combustion engines are at the focus of attention at the moment because they can be made to burn a variety of fuels and thus can become minor sources of pollution.

Dupont studies have shown that its design could easily be up-rated to 200 h.p. at the least and in this form—apart from static engine-generator sets, it could power marine engines, and fork-lift trucks.

effective on carbon monoxide and hydrocarbons from petrol engines, and the nitric oxides and dioxides from industrial chimneys.

The laser, in the method developed by the Bell Laboratories, Holmdel, N.J., U.S., is tuned to a specific frequency by changing the magnetic field in which it works. Its beam is led through an opto-acoustic absorption cell containing the air sample. The beam is tuned to the specific frequency of the pollutant for which the test is being made.

Any of this pollutant in the sample absorbs energy from the beam. This absorbed energy results in an increase in temperature and pressure in the absorption cell, and the increase is read by a transducer in the cell which generates an electrical signal. The increase and thus the strength of the signal are directly proportional to the amount of polluting material present.

A typical absorption frequency is that for nitric oxide, which takes in energy if the laser is radiating waves of five to six microns length. No other pollutant will absorb energy of this frequency.

Laser tests pollution

TAKING advantage of the fact that polluting materials in the air absorb laser energy, it is now possible to measure pollution as small as 10 parts per 1,000m.

The method gives an immediate reading of the amount of the common pollutants except sulphur dioxide. It is equally

METALWORKING

Controls drilling

TELEMECANIQUE has developed a complete hardware and software system to generate, automatically, a punched tape for the control of printed circuit drilling machines.

It is made up from a co-ordinate table with inductosyn rulers to determine the X and Y co-ordinate of the printed circuit drawing. A Telemecanique T 2000 small computer receives the X and Y co-ordinate information through a special tracking pen.

The T 2000 software automatically generates a paper tape on a Teletype connected to the computer. This paper tape is then directly fed into the company's NUM 330 numerical control unit, which runs the machine tool for drilling the printed circuits.

Telemecanique, which operates from Hemwood, Ashford, Kent, has also announced the T 1000 as the latest addition to its range of industrial automation systems.

The T 1000 is a mini computer with "midi" capabilities, being completely compatible with its larger predecessor and able to utilise all the program library available to the T 2000.

The system offered to a customer can be tailored to suit each different application because of the modular design. In this each sub-assembly, such as

the processing unit, read/write memory and the interrupt system are all interconnected by a common bus.

The central processor uses a 20 bit word with a read/write core memory expandable from 2 K to 16 K in 2 K units. Cycle time is less than 1.2 micro-seconds.

A read-only memory of 32 bit word length replaces part of the central processor logic and contains micro-instructions for the management and processing of the main program held in the read/write memory.

General purpose blowpipe

DESIGNED to operate using compressed air and either natural or town's gas, is a blowpipe intended for assembly line work and general heating applications in the motor and glass-making industries, garages and general workshops.

The blowpipe has an aluminium body and plastic handle, with a lever operated main air valve,

and air and fuel gas trimming valves. There are two standard versions, known as the Saffire Gasmaster 16K which gives 50,000 btu/hour and the 2K giving 6,000 btu/hour. A 6K version giving 20,000 btu/hour is available to special order.

The British Oxygen Company, of Hammersmith House, London, W6, makes the blowpipe.

Plate shears

HYDRAULIC plate shears for cutting steel, stainless steel, aluminium and hard copper sheets up to 3 mm thick, accommodating plates up to 2080 mm wide, are available from Lester Brown Machine Tools, Beyton Road, Ex-hall, Coventry, which is marketing the Von-Arx Model HSD-3 in the U.K.

The shear can operate continuously or in single strokes—two strokes lengths are available. Working with the shorter stroke avoids any sheet damage when cutting extra long strips and increases the number of cuts per minute. Stroke speeds are up to 45 per minute at full working length and 55/minute at reduced working length. The shear works on a swing beam cutting principle. The cutting action is controlled by a pedal on a wander

COMPUTERS

Burroughs a winner in Scotland

FIVE towns belonging to the new towns group of Cumbernauld, East Kilbride, Glenrothes, Irvine and Livingston have clubbed together to buy firm worth of computing equipment from Burroughs to be shared by the participants.

It is intended to use as the central machine a B3500 and to have, in each centre in the five towns, a TC500 intelligent terminal linked to the central unit over private Post Office lines.

This is a significant move into the shared facility area and though it is not the first, the fact that the five areas are so to speak on an equal footing is extremely interesting.

All the terminal units will have access, through the big machine, to a very large file of central information. The B3500 will start off with 90,000 bytes of core and 40m. bytes of main memory in disc files and its data base will be geared to storing information on every aspect of the establishment and development of these new towns.

Access to this information will take a matter of seconds and the data will be used in such work as highway planning, landscaping, architectural design and in general administration.

The terminals will be used for financial and administrative enquiries in real-time as well as for the direct input of data to file and replies from the central unit. But architects and engineers also will be able to use the central machine direct from terminals in their own offices, these being of the teletypewriter design.

Another snippet of news from Burroughs, this time in the U.S., will bring good cheer to the hearts of the banking sector sales force in Britain. It is that the Federal Reserve Bank of New York, largest of the 12 U.S. Government FRB's, has ordered a B6700 data processing system like Barclays and Midland banks in Britain. The New York branch is to use the equipment on research and statistics, handling an enormous flow of regular reports.

Finds the best route

SOLUTIONS of problems in depositing, fleet planning, vehicle scheduling, amenities location and town planning, are critically dependent on the accuracy of measurements of time and distance.

A new package from M. J. Bevan of Bancroft Court, Hitchin, called "Roadnet", provides this information. This is a suite containing a database of all significant road linkages in the British Isles. These roads are classified into seven jurisdictions to enable differentiation between travel speeds. The suite will produce from this databank the minimum travel times and mileage between all pairs of points in a set of origins and destinations.

To do this it needs only the National Grid reference co-ordinates of those points, and the speed for each jurisdiction of road that may be used in the trips intended.

An updating program is supplied for processing revisions and also for enabling clients to create temporarily amended road networks for special applications. Some examples are the deletion of all links with bridges of clearance less than a given height, or of icy roads, or the creation of proposed motorway extensions to evaluate their effect on a given problem.

Philosophy behind the system is that all parts of an area that are not actually roads are barriers to a roadbound vehicle. So the designers see more sense in coding all roads rather than a bare minimum of barriers and, of course, the cost of computation falls considerably.

Logs one hundred channels

AN event logger that can scan each of 100 channels 1,000 times a second at relatively low cost has been put on the market by Sturge Automation of Efford Lane, Birmingham B30 3PF.

The main application for the machine, which is called Statalog, is expected to be in industrial control rooms and plants. It will record machine operation, cycle times, stoppages and idling time, giving an automatic log of plant utilization and efficiency. A 20 character-line per second print-out identifies in plain language or clear abbreviations, the time, the item of plant and the change that has occurred.

A change of state produces an audible and visible alarm and the scan is stopped. When the print-out is completed the scan restarts automatically and the change state is held in core storage until a further change occurs.

Any event that happens to occur during the print-out is stored until the scan recommences. Print-out format is also held in the core store and can be reprogrammed without wiring changes or expensive ancillary equipment.

Inputs to the alarm scanner can be from the plant direct or from analogue measurement signals through plug-in interface units.

The system can be supplied as a complete package mounted in a standard 18-inch rack cabinet 5 feet high and 2 feet deep or as separate printer, scanner, and clock units.

Fine control of machining tolerances to 0.13 mm were essential for the fabrication of this rain gauge, which is designed automatically to collect rainfall data, and may be left unattended for several months at meteorological stations. The unit is in two sections—base and collector funnel. The base contains the tipping bucket mechanism, timing clock and battery, and a tape recorder, giving readings suitable for automatic processing and analysis. The collector funnel is available in two sizes, 150 and 750 square centimetres. The design was tested in a wind tunnel to preclude splashing and to cause minimum disturbance to airflow across the collector mouth. The base and funnel are made in ICI's Perspex by D and J. Plastics (Croydon), and the gauge is made by The Plessey Company.

ELECTRONICS

Brighter flying spot scanner

THE ability to scan negative colour film in TV telecine operations and reduced setting up time of colour film scanners in general are advantages claimed for a newly introduced high brightness CRT for flying spot scanning from EMI Electronics, Hayes, Middlesex.

The tube, called the MX89, employs a new phosphor of extremely fine texture (two to five micron grain size) settled by a special process to avoid clumping, giving a screen with negligible noise.

The brightness is claimed to be nearly twice that of conventional zinc oxide tubes under focused conditions for equal current and voltage. It can, says EMI, give a very satisfactory performance at a reduced voltage with consequent reduction in X-radiation.

The phosphor is also claimed to have much less change of brightness with focus than zinc oxide and hence shading due to slight change of focus is minimized.

The tube has a diameter of 125 mm and has been developed specially for negative colour film in 35 mm and 16 mm film scanners.

ITT's plant at Harlow for producing high quality nickel-based alloys is now in operation.

Unlike most plants of this kind, which use vacuum melting techniques, the Harlow process uses a recirculating hydrogen furnace. The powder from which the alloy is to be made is mixed with additives in a revolving drum and then formed into blocks. These are sintered at about 1,300 deg. C in a low pressure

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INSTRUMENTS

Torsion is shown on the graph

A TORSION testing machine developed at Bristol Uthly is being marketed by Chad Madan of Broadbent, A. Cham, under licence from National Research Development Corporation. It draws a graph of torque against twist while specimen is under load and this the whole shear stress/relationship can be quickly easily derived. There is great interest in the torsion test materials and the company already sold a number of type machines.

Shear stress/strain relationships of a ductile material, as steel, are more important to designers than the tensile relationship. How while there are many testing machines in general for routine factory testing, comparatively few complete torsion testing machines, which the shear relationship derived, have normally only used in laboratories. The machine, invented by Prof J. L. M. Morrison of Bristol University, is a considerably simplified design, which reduces the time taken to carry out torsion test and automates plots the torque/twist characteristic of a specimen piece the material under test.

An electric motor drives end of the specimen through gearbox. The other end of specimen is attached to previously calibrated cylindrical bar on which an electrical gauge is fixed. The strain gauge is connected to a pen recorder record the torque on specimen and the gearbox is shaft also drives the chart of recorder to provide the signal.

In this way a graph of torque against twist is produced since the twist of the specimen in the elastic range is two orders of magnitude lower than in plastic range, the gearbox widely-spaced ratios to allow this. Important practical value such as the limit of elasticity, yield stress, the ultimate stress, as well as the stress at failure occurs, are also recorded.

The machine is easily operated and the stress/strain curve can readily be obtained a simple graphic method for the torque/twist curve.

FINISHING

Polishing aluminium

TRAVELLING polishing machine, for polishing aluminium architectural components, has been developed to replace standard reciprocating tables at will occupy only half the usual space.

The machine has a fixed table 28 feet long and will be used to polish long aluminium door and window sections prior to anodising. The travelling polishing head and its self-contained dust extraction unit, is supported on trolley bases moving on a ground steel track, which extends 10 feet beyond the end of the work table.

Each trolley base is fitted with anti-crabbing and anti-lift rollers and travel power is supplied to a 1 h.p. dc motor.

A polishing head incorporating spring loaded fully float characteristics is fitted, driven by a 15 h.p. ac motor and carries a 24 inch wide polishing mop. The machine, built by Job Hawley and Co. (Engineering of Green Lane, Walsall, is controlled by one operator.

By agreement between the Financial Times and the B.R. information from The Technical Page is available for use by the Corporation's External Service as source material for its news broadcasts.

Looks for drop-outs

A MACHINE able to test data magnetic tapes at 180 inches per second for their recording capabilities has been put on the market by Computer Ancillaries, of Radix House, Central Trading Estate, Staines, Middlesex.

Called the model 300, it will "test" and "certify" tapes for 565, 800 or 1600 bits per inch data densities for seven or nine-track operation and across the whole width of the tape.

In operation the machine first removes any data on the tape, and then detects drop-out and edge damage errors in a single pass. Any detected errors are automatically rechecked up to twelve times to confirm their presence, after which they are classified as temporary or permanent.

The machine will count the number of errors it encounters when it is operating in its continuous "test" mode. In the "certify" mode it can be set to stop automatically and identify (after retest) a permanent error.

Facilities are incorporated into the machine to clean the tape both before and during testing.

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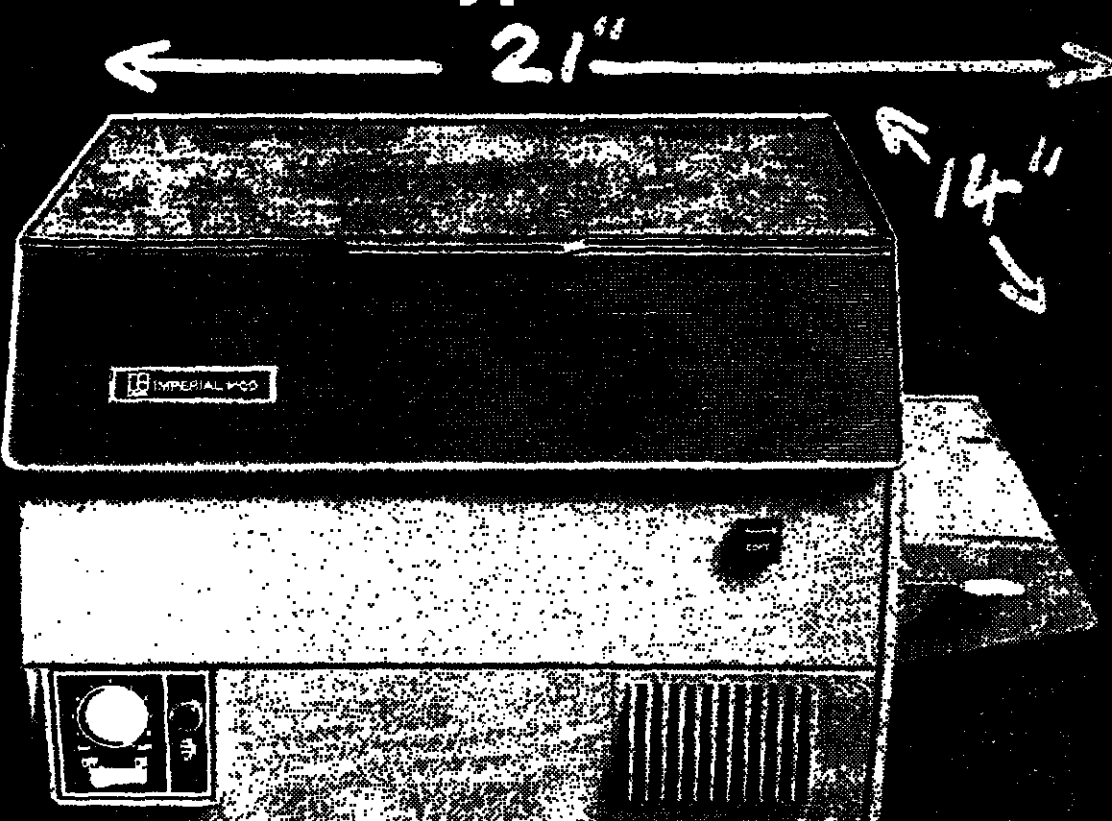
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SCIENTISTS' PAY

Academic world tops list

BY MICHAEL DIXON, EDUCATION CORRESPONDENT

ANYONE who thinks of academic scientists as dedicated but relatively poor scholars, is living in the past. It now seems that earnings levels are mainly highest in academic life not just for professionally qualified chemists—as disclosed in the Financial Times on October 16—but for all scientists belonging to the five professional bodies which constitute the Council of Science and Technology Institutes.

This year the Institute of Biology, the Institute of Mathematics and its Applications, the Institute of Physics, the Institution of Metallurgists and the Royal Institute of Chemistry all surveyed the earnings of members working in various jobs in different sectors. More than 30,000 professional scientists gave information representing nearly two-thirds of the total membership.

The combined results, previously unpublished, show that in general the academic world takes the cake. The chart with this article, for instance, traces the median earnings as at January 1, 1971, of the five bodies' "associate" members—the highest level of membership awarded primarily for examination results.

Middle man

The chart therefore reflects the total earned incomes, from all sources, of people with similar professional qualifications, but employed in different walks of working life. The "middle" figure represents the earnings of the "middle man" in each group.

For example, the group of 46-50-year-olds working in universities is made up of the associate-level members of all five bodies who fit this description, whether they are professors or lecturers. Of these, half earn more than the median of £4,050, and half earn less.

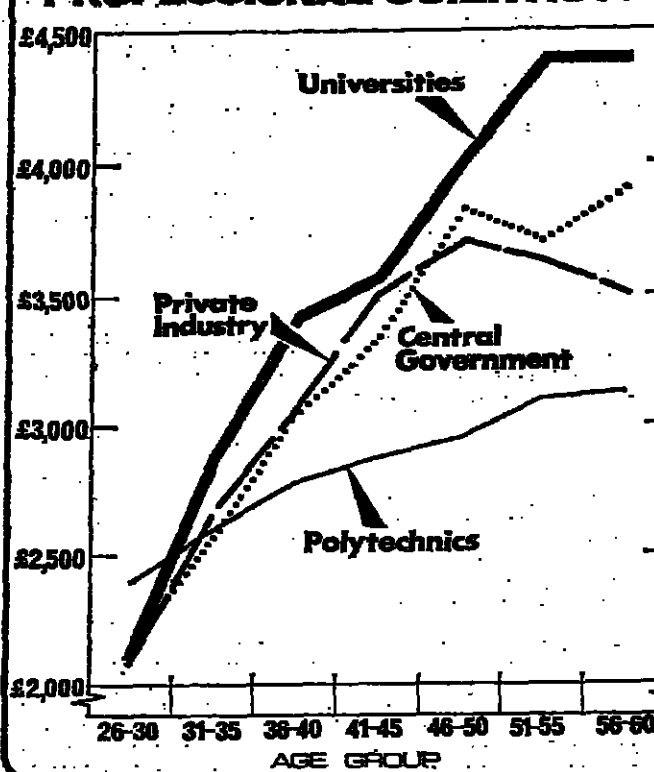
The total earnings of the "middle associate-level scientist" in university work exceed those of his similarly qualified counterparts elsewhere from the age of 31 onwards. The official salary scales for academics do not seem unduly generous. They run from about £1,500 to around £3,400 for lecturers, to a maximum of about £4,400 for senior lecturers and readers, and to an average of around £5,800 for professors.

So the immediately apparent explanation for the "middle" academic professional scientists' lead is that they are able to do external work, such as consultancy—particularly in the long vacations—which, together with virtually total job security, are the outstanding fringe benefits of an academic career.

However, the fact that the university median continues to gain after the age of 45, when the others level off, probably has another explanation. Often academic scientists who have not previously joined their professional body do so when they approach professional rank, which gives a high-income bias to the university medians in the older age groups.

The widely held belief that a professional scientist who enters industry instead of taking a university post is bound to earn more money, is definitely refuted by these figures. True, the scientist who gets to the top in industry will earn more than the top academics. To do this, however, the industrial man—unlike his counterparts in universities—would have to cease being primarily a scientist.

MEDIAN TOTAL EARNINGS OF PROFESSIONAL SCIENTISTS



ings here are £2,940 at 36-40, £3,490 at 36-40, £4,000 at 41-45, £4,280 at 46-50, £4,350 at 51-55, and £4,800 at 56-60. The median for similarly qualified people managing other forms of scientific and technical work is lower—£2,660 at 31-35, £3,000 at 36-40, £3,450 at 41-45, £3,800 at 46-50, £3,760 at 51-55, and £4,150 at 56-60.

The figures for the other workers are much the same as those employed in research and development departments. Those doing other scientific and technical jobs. The professional research chemists' median earnings are £2,500 at 31-35, £2,820 at 36-40, £3,150 at 41-45, £3,410 at 46-50, £3,270 at 51-55, and £3,180 at 56-60. The comparable figures for the "other" workers are £2,640, £2,850, £3,240, £3,530, and £3,880.

Industrial companies have a back on research activity and have few jobs available for young science specialists. If companies want to fill the jobs with the academically brightest science graduates, earnings levels shown here are a definite obstacle to industrial recruitment plans.

Top honours graduates in university science courses usually all share the same idea—to spend their working life doing scientific research. Such people the message of earnings surveys is clear: accept any offer of a further course of education that could lead to a university career in science.

Public sector

Falling that, the next earnings prospects—a good lower—are in the public sector. There the median figures for research work are £2,550 at 31-35, £2,860 at 36-40, £3,290 at 41-45, £3,900 at 46-50, £3,320 at 51-55, and £4,000 at 56-60.

Below the public sector come private industry. However, even "on the bench" research work in commercial companies seems to offer professional scientists better earnings prospects than does teaching in the polytechnics. It is hard to understand, therefore, how the Government expects the polytechnics to become the equal of the universities in public esteem, especially since last week's pay rise for polytechnic lecturers still leaves their salary scales well behind those of university lecturers.

Research work

The RIC's statistics show an impressively high median for the professional chemist who has gone into general management. The "middle man" in this category is earning £3,170 at 31-35 years old; £4,000 at 36-40; £4,950 at 41-45; £5,310 at 46-50; and at 51-55, and £5,000 at 56-60.

Next highest in the industrial ranking is the professional who manages research and development work. The median earnings

Dirty restaurants closure urged

DIRTY RESTAURANTS should be closed rather than fined up to £100 as at present says a medical officer of health. Dr. Joseph Briscoe-Smith, MOH for the City of Westminster, says in his annual report: "The closure of a highly profitable restaurant would be more salutary than the present maximum fine of £100 under food hygiene regulations which could, in some instances, mean little more than a slight drop in profits... due to a wet week-end."

He says food is prepared at some catering premises in Westminster "in conditions which leave much to be desired."

"The satisfactory premises tend to be merged with those that are not, and this results in a picture of many unhygienic and unsatisfactory premises being used for the preparation and sale of food."

This was the situation despite continuous efforts by the inspectorate to maintain acceptable conditions.

Dr. Briscoe-Smith blames much of the problem on those engaged in the day-to-day operation of the business. There are far more vacancies than the labour force of lower-paid and often casual catering workers can fill, he says.

Lower standards

"It follows that a dissatisfied worker will move elsewhere taking his attitude to his daily task with him, with the outcome that at the new premises his lower standard will continue to prevail. This situation is accentuated by the fact that many catering premises form part of vast impersonal complexes."

The MOH complains that under existing legislation a magistrate can disqualify a caterer carrying on business for up to two years.

"But the caterer's wife, or any body else, may carry on the business under the same conditions which existed before disqualification."

Law Society backs move on compulsory purchase

THE LAW SOCIETY has joined the other professional bodies in criticising the unsatisfactory law on compensation for compulsory acquisition. "This is a problem which has existed for some time although it has been highlighted in the case of the houses at Hendon (North London) affected by the M1 extension where no compensation was available to houseowners," it says in a memorandum published yesterday.

Blight

The society recommends an entirely new approach to the problem not only of compensation for compulsory acquisition but also for the effect of blight on property which is thought likely to be affected by compulsory acquisition but for which plans are not completely formulated. It recommends that in addition to receiving market value and compensation for disturbance, the dispossessed owner should receive a bonus.

Although the amount of compensation paid by local authorities would be greater the society feels the amount saved in administrative costs of negotiations and, in particular, public inquiries, would largely offset any increase in compensation.

The society also wants to see compensation paid by public authorities which carry out operations on adjoining land which, in the case of a private owner, would constitute a nuisance but which, under the law as it now stands, give no right to a landowner who suffers.

Alternatively the landowner should have the right to make the public authority purchase his land.

Automatic

Owners of a house which is partially affected by compulsory acquisition, provided the house is within the rent act limits or is a single unit of occupation, should have an automatic and unqualified right to insist that their whole

property is purchased by the authority. The society says that although the authorities' initial expenditure might be increased, the problem would be one of cash flow only. Properties acquired would be available for resale when work was complete and the net cost would not be significantly greater than at present.

Events

To-day

PARLIAMENTARY BUSINESS—House of Commons: Fourth day of debate on the U.K. and the European Communities.
House of Lords: Town and Country Planning Bill, Commons amendments; of three-day debate on British membership of the Common Market.
SOCIETY OF INVESTMENT ANALYSTS: meeting to be addressed by Mr. R. C. Hale, managing director of Waverley, at the Great Eastern Hotel, E.C., 12.15 p.m.

COMPANY MEETINGS—AMALGAMATED ROADSTONE, 15, St. James's Gate, W. 12.45. (Chairman, Mr. G. J. Mortimer.)

CONSOLIDATED SALAK RUBBER ESTATES, 5, Queen Street, E.C., 11. (Chairman, Mr. R. E. Ramsey.)

EAST ASIATIC RUBBER ESTATES, 21, Minerva Lane, E.C., 12. (Chairman, Mr. H. T. Karlsen.)

ROSEM YEA, 3, Minerva Lane, E.C., 12. (Chairman, Mr. B. C. Lancel.)

PUNDALOVA, 13, Road Lane, E.C., 11. (Chairman, Mr. C. R. Bole.)

RAIR TEXTILES, Hyde Park Hotel, S.W., 12. (Chairman, Mr. H. Edwards.)

SCOTTISH ENGLISH AND EUROPEAN TEXTILES, Essex Hall, W.C., 12. (Chairman, Mr. J. R. Macdonald.)

STOCKLAKE HOLDINGS, House, E.C., 12. (Chairman, Mr. C. K. Warnford Investments, 23, Alderbury, E.C., 3. (Chairman, Mr. S. Wood.)

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ROAD HAULAGE

The Financial Times will publish a survey of Road Haulage on Thursday, November 4. The following indicates the proposed editorial content.

1. Introduction. Hauliers have been squeezed by rising costs, the trade recession, new legal standards imposed by the Government and now fear of further cuts in drivers' hours if Britain joins the EEC. The industry's prospects—and its role in today's transport and distribution scene. Track rental situation.
2. Licensing. The 1968 Transport Act made professionalism the basis of haulage licensing. How is the new system and the blurring of the old distinction between private operation and public hire, working out? Has entry into the industry become too easy?
3. Common Market. Hauliers might have to face another upheaval in the licensing system, as well as a further reduction in drivers' hours, if Britain joins the EEC. The present state of EEC transport policy—and the Brussels terms.
4. The Customer. A user's view of the service he expects from the haulier.
5. Vehicle Design. The Government has ruled against 44-ton lorries, and proposed new noise and smoke regulations. The effects on vehicle design, and the improvements the vehicle-makers are themselves planning.
6. The Men. Greater emphasis is now placed upon road safety and training enough drivers, mechanics, and managers to meet today's requirements? How is the testing and training system working out?
7. Security. The campaign to reduce hi-jackings has worked well. The lessons—and what more could be done?
8. International Operation. Despite the restrictive quotas imposed by France, Germany and Italy, haulage traffic across the Channel has grown fast. The prospects, and problems, of this specialised business.
9. Parcels. The three State-owned parcels carriers are losing money, and private competition is growing. The problem—and possible solutions.
10. Turn-round. 'Slow turn-round' at the port or factory is the bane of the haulier's life. What can be done?

top Soviet grudge against U.K. could be long-lasting

MOIRA CUNYNGHAME

MOSCOW, Oct. 25.

SOVIET relations are bound to consider it politically motivated. The Soviet Union will do all it can to gain British support for a European conference, but it seems likely to vent its wrath in other ways, and highly unlikely that it will hasten to take any such steps. It is quite clear from the cards that more British diplomats or journalists, who have not yet been affected, will be expelled during the coming months. Most people here agree that the Soviet counter-measures, which were determined by a strict sense of protocol, did not reflect the extreme anger the Russians felt, and that they have not yet drawn a veil over the affair.

Nothing will be done to endanger the convening of a European Security Conference, which leaves the Soviets a fairly free hand. The main target for Soviet vengeance could be British exports to the Soviet Union. In spite of the Soviet affirmation that trade is trade, politics is politics, the one shall not affect the other, it is well known that trade is used to boost political aims and vice-versa. It is said that a group of experts is now at work in the Ministry of Foreign Affairs here re-examining import orders marked for Britain to other countries, West Germany and France. This

would have the double effect of further promoting Soviet relations with other countries while slighting Britain. The likelihood is that the Soviet Union will buy as much from other countries as is feasible while taking care to maintain its present sales to Britain, which run at about £200m. a year. British exports had already fallen before the deterioration in Anglo-Soviet relations, and total exports this year are expected to be worth £280m. to £300m., compared with roughly £100m. last year.

Co-operation

The Soviets would like the European Security Conference, which they hope will bring them increased technological, scientific and economic co-operation with the West, to take place before the Common Market is enlarged and consolidated. There, also, seems to be genuine concern here at some of the political arguments put forward in Britain for entry into the EEC, and the Soviet Union will undoubtedly play up any criticism of the "Russian bog" theme by the Labour Opposition in the Parliamentary debate.

The Soviet authorities clearly intend to ostracise Britain in every field they can. How long this face-saving revenge will last will depend partly on the progress made towards a detente in Europe and the conference they so desperately want. Meanwhile, British exports will suffer and, in view of the increased competition for the Soviet market, it will be a long time before the loss is recovered.

WINE

A report on the French Vintage

BY EDMUND PENNING-ROWSELL

In the leading French wine districts the results of the 1971 vintage seem more likely to be admired by the amateurs than by the professionals. For the wines look like being short in quantity, good in quality and expensive. The amateurs can wait to make their personal selection, but the wine trade here, probably with large quantities of unsold 1969 and 1970s on their books, may have to find the money relatively quickly to buy the third vintage in a row; an uncommon occurrence.

About the shortfall in quantity there is no question. After an early spring, hopes of a large crop everywhere, to follow the huge harvest last year, were dashed by a poor flowering of the vine in a June as wet and cold in France as it was in Britain. As a result there was widespread coulure, when the flowers or tiny grapes drop off. After that nothing could alter the prospects of a small quantity.

However, there followed an almost surprisingly fine summer, with July and August wonderfully sunny and warm, though August was marred as it nearly always is, by hailstorms in some areas, notably in the white wine areas of the Côte de Beaune. In September there was some damaging hail in the Graves area of Bordeaux, as well as moderate rain in the second week, and more violent storms about a week before the vintage began, generally on the 27th. Yet these latter probably did more good than harm in refreshing the dry vines and swelling the grapes, which were small.

The dry August and the fine, other end of the fine-wine scale

sunny September certainly saved the vintage, apart from the Rhone Valley where the weather is more dependable. This fine weather applied as much to Bordeaux in the south-west, whose Atlantic-dependent climate results in sudden changes. This variable climatic condition accounts in part for the variations in results from the Gironde, the largest fine-wine area of France.

Outside Bordeaux the quality of the 1971 vintage seems not in doubt. When I was in Champagne early in the fourth week of September, not only was the short vintage almost over, but there was already no uncertainty about the result: a fine year, likely to be a vintage one, but dreadfully short in quantity. In Alsace the crop deficit was not quite so marked, but the fine quality is assured.

In Burgundy too there was no scepticism about the results of a vintage still in its last stages. One distinguished shipper breathed to me a possible comparison with 1939, another with 1961: magic years in the list. As always, a caveat must be entered over Burgundy, which varies greatly from grower to grower and merchant to merchant. The market had not really opened when I was there, but everyone was expecting higher prices, and Pouilly-Fuissé, whose average price per cask had risen from Frs.600 in 1965 to Frs.1500 in 1970, was being notched up at Frs.2000 as the vintage closed.

Caused by U.S. demand for a wine in limited supply, this rise is not a fair indication of the movement of prices. Yet at the end of the fine-wine scale

what will be the price of Montrachet, which sold for around Frs.10,000 in 1970, but this year was ravaged by August hailstorms, which tore ripening bunches of grapes from the vines? It will be interesting to observe the quantities offered and the prices paid at next month's Hospices de Beaune sale. Anyhow it seems fairly clear that 71 will be a vintage for the burgundy drinker, especially perhaps for the red wines.

For Beaujolais, the quantity situation is less bad than further north, for the crop was described to me as "a small average." Scarcely less of a problem than coulure are the voracious beaujolais nouveau and beaujolais de l'année buyers, who by exploiting the fashionable demand for this half-wine wine force up the price and absorb supplies that might be more traditionally treated. However there is no doubt on the spot that 71 beaujolais will be excellent; a wine to keep, if anyone will give it a chance.

The Rhone crop will be good and sufficient to go round, and no doubt the "importers" of Beaujeu and Nuits St. Georges will secure their ration to "fill out" the cheaper blends of Côte d'Or wines.

In Bordeaux the situation is, as always, more complex. Apart from weather uncertainties, the problems of assessing a vintage there derive partly from the number of grape varieties grown. Whereas in Burgundy there is only the Pinot Noir (or Gris) for red wine, while Beaujolais depends on the Gamay, in Bordeaux there are the Cabernets Sauvignon and Franc, the Merlot and the marginally employed

Petit Verdot and Malbec. A simple Palmer picked its Merlot early and paused for the Cabernet. Rausan Ségla, just opposite Palmer, started on the 30th, a day also favoured by such leading châteaux as Latour, Mouton Rothschild and Haut Brion. The last of these, with an army of 200 pickers, had finished by October 4, while Mouton was through by the 10th. Yet Lafite, traditionally a late starter, only sent the troupes into the vineyards on 4th, hoping to find surmaturité.

In spite of the imponderables, 1971 will certainly be at least a reasonably good claret vintage, though one that may take careful selection. Classified growth prices might well start at the level of the second tranche (slice) of the 1970s, that is higher than the opening prices last year. Even if they do not sell out, the owners will welcome the chance to accumulate a little stock. It is the *crus bourgeois* growers that need our sympathy, and maybe our orders: a plentiful 70, does not make up for a poor 68, and short crops in '69 and '71.

Sauternes prospects are not clear, for heavy rain in the middle of what is always a late vintage, there may have dampened what previously were high hopes. Certainly the Sauternes district, where several classed growth châteaux have recently changed hands, is in need of a succession of good vintages.

Written while in many cases the wine is still in the fermenting vats, this must be only an interim report, a forecast not a firm view. It is no time yet to talk up and buy up the 71s: that can be left to the beaujolais nouveau boys.

How actuaries see pension plan

BY ERIC SHORT

MOST encouraging aspects of the White Paper on pensions stress on the development of occupational schemes and the flexible way in which it is tackling the problem of control of these schemes, said E. F. Rogers last night at the Institute of Actuaries in London.

He was opening the discussion of the Government's pension proposals.

But, he said, a period of stability and consolidation in the pension system was needed to secure the healthy and rapid expansion that should be possible within the proposed framework.

Mr. Rogers said that in making the Government-sponsored reserve scheme fully funded an entirely new approach to compulsory pension provision was being made about which he had several reservations.

First, he was concerned with the basic problem of improving benefit levels, which would be extremely slow under the reserve scheme.

Second, the contrast between this scheme and the benefit patterns of most occupational schemes would present some difficult problems for recognition.

Finally, there were the dangers of possible political pressures which could be brought to bear not only for improving benefit levels or reducing contribution rates beyond those actually acceptable, but also on the investment of the funds accumulated by the scheme.

It was estimated that such funds would reach £5,000m. within 20 years. As such, he concluded, it would be a powerful economic force, and control of it could be highly attractive to future Governments bent on pursuing particular social or economic ends.

would depend on the flexibility and imagination with which the proposed Occupational Pensions Board interpreted its responsibilities.

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Maybe Daimler should call it the 'Golden' Sovereign now.

Institute of British Carriage and Automobile Manufacturers 1971 Motor Show coachwork competition:

Gold Medal: Daimler Sovereign
Silver Medal: Bentley Corniche

Section 2, owner driver's enclosed coachwork, without division. No price limit.



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HOME CONTRACTS

Services orders worth £3.4m. for Haden Young

Haden Young has won four contracts worth a total of £3.4m. The largest, at £1.9m., is for mechanical services for the new central hospital being built on a site of the Belfast City Hospital.

Another large order is mechanical and electrical services worth £1m. at the new Kingston Hilton Hotel in Molland Park Avenue. Work on the Kensington site has already started and project completion is expected for spring 1973.

The third contract, worth £60,000, is for the installation of mechanical and electrical services in a new office development in Kew, for the Manufacturers' Insurance Company. Lastly, a company is to supply technical services to the Institute of Clinical Science for the Middlesex Hospital Medical School at a cost of £210,000.

Limmer Holdings has been awarded contracts worth more than £24,000 for asphalt surfacing, road construction and drainage. These include a £242,000 job-contract at the new fruit, fish and vegetable market in Manchester, on which work is expected to start in July 1972; and construction and drainage work for the Edinburgh Corporation and the Burgh of Milngavie.

(£150,000). Work on the latter contract will commence in November.

Hydralon has won a contract worth £150,000 from the Ministry of Defence. The order covers epoxide coating for electrical insulation in a complex weapon system.

John Willmott Construction has won two contracts to build middle schools for the County of Bedford. These are at Flitwick and Cranfield and have a total value of £400,000.

Cartransport (BRS) has won a three year contract for the distribution of domestic vehicles. The order is from Chrysler U.K. and is estimated to be worth between £5m. and £8m. It will commence on January 1, and will be operated as a separate division of the company. Cartransport is the main car delivery company of the National Freight Corporation.

W. J. Furse and Co. (Crown House Group) has received a £202,000 contract for the design, manufacture and installation of lifts in the new teaching hospital and medical school for the Sheffield Regional Hospital Board.

New freight service on Heysham-Belfast route

BY JAMES McDONALD, SHIPPING CORRESPONDENT

A NEW roll-on, roll-off freight service between Heysham and Belfast, jointly operated by Belfast Steamship (a subsidiary of Coast Lines, which is a member of the P and O group) and British Rail, will come into operation next Monday.

The service—operated on a Monday-to-Saturday basis—will use, on the Belfast Steamship side, the unit-load vessel Saaletal, on charter to the company. British Rail will use its own vessels, and will contribute its port establishment and services at Heysham, while Belfast Steamship will put in its group's road haulage services and the services of its

terminal at Belfast. "The trade will be split down the middle," said a Coast Lines spokesman yesterday.

Also there will be a joint sales effort by BR and Belfast Steamship to generate trade for the service. The Saaletal will leave Belfast at 1830 hours to arrive at Heysham at 0230 hours, and two hours later will sail, arriving at Belfast at 1630 hours, so providing a round trip every 24 hours.

This is the first time that Belfast Steamship has operated out of Heysham. The Saaletal, at present on the Ardrossan-Belfast route, has sleeping and catering facilities for 12 vehicle drivers.

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TUESDAY OCTOBER 26 1971

Sadat's rash deadline

THERE IS little more than two months now before the end of the year, the deadline set by President Sadat of Egypt for a decision on whether the deadlock with Israel should be resolved by "peace or war." Yesterday the official spokesman in Cairo went further in the rash game of specifying time limits by saying that the end of the Muslim fast of Ramadan in just over three weeks' time. The Egyptian Government does not, of course, mean that a full-scale conflict will be resumed by then if there has been no Israeli commitment to withdraw from the East bank of the Canal. Rather, it is saying that Cairo's future course of action will be clear by then.

Exasperation

President Sadat's deadline reflects Egyptian exasperation over the failure to end the impasse created by the June War of 1967. It is also a part of the scare strategy designed to alarm the world at large about the possibility of a conflict. The theory is that international pressures might thus be brought to bear on Israel to withdraw from the occupied territories on Arab terms. By the time Ramadan is over the UN General Assembly debate will probably be finished and the outcome of the current Egyptian diplomatic campaign should be known. It is unlikely to result in anything more than a mild condemnation by the General Assembly of Israeli refusal to go back to the pre-June War lines.

Meanwhile, within Egypt President Sadat's plausibility will probably be impaired—perhaps fatally in the long-term—by his deadline. It is scarcely conceivable that he will be able to show by the end of the year any prospect of recovering the whole of Sinai, by peace or war. President Sadat knows full well that Egypt cannot at present contemplate evicting Israel by military means. It is also clear that the Kremlin, despite the promise of more arms supplies, did not ease Egypt's predicament when President Sadat went earlier this month to Moscow to ask for a greater offensive capability. The

Solving aluminium's problems

CANADA and West Germany are believed to be the countries which have taken the initiative in asking the Organisation for Economic Co-operation and Development (OECD) to establish a working group to look at the problems of the international aluminium industry. Such a move is interesting for a number of reasons. Aluminium is one of the most important of all industries, and one that is dominated by a handful of vertically-integrated companies which control all the processes from the mining of bauxite in the tropics to the marketing of foil in super-markets.

Depressed

In normal circumstances these companies would be the first to resist any attempt to interfere with their internal affairs. However, times are not normal. The industry is suffering its most depressing period since the war, largely because demand has been unusually sluggish at a time when considerable extra capacity, planned three years or more ago, is coming on stream.

An industry which has traditionally geared itself to making adequate profits when running its smelters at 100 per cent of capacity has had to cut back to an estimated 86 per cent, and further reductions are now being forecast. Profits are tumbling, with the third quarter earnings of the industry leader, Alcoa, showing a 77 per cent fall on the position a year earlier.

Three of the top six companies—Alcoa, Kaiser, and Reynolds—are based in the U.S., and are constrained from discussing capacity problems together by the strict anti-trust laws. Even so, the debate has been carried out through the columns of the Press, each company in turn announcing cuts in production and urging their competitors to follow suit. This smelter construction, which has campaign had a measure of success, though not to the point

where prices have begun to harden. Against this background of surplus capacity, the aluminium industry is particularly vulnerable to the import surcharge introduced by the U.S. Government in August. As an example, one leading producer, faced with the need to reduce production, chose to close down some of its less efficient pot lines in the U.S. and draw metal from its low-cost smelter in Ghana, a decision that has proved costly in view of the imposition of the surcharge, although no doubt that is exactly the effect President Nixon was hoping to achieve.

The President's measures are also likely to have the effect of reducing consumption of aluminium outside the U.S., and of diverting metal from that market to others, all at a time of surplus production and depressed prices. The development, which the industry fears most is a trade war, with the raising of tariff walls and embargoes. Although aluminium is only one of many commodities that could be affected by such a development, it is for this reason that some sections of the industry are inclined to give a warmer welcome to the idea of OECD intervention than might otherwise be the case. An offer to examine the problems on the part of the OECD might conceivably take some of the emotion out of the present situation.

Precedent

There is a precedent for action in the OECD's study of Government shipbuilding credits. So far as aluminium goes, however, it is difficult to see what short-term assistance the organisation can offer. By the time it reports, aluminium may be on its way to recovery: the industry expects to be in balance again by 1974-75. Longer term, the OECD may have a role in discouraging governments from offering excessive subsidies for new smelters. This smelter construction, which has campaign had a measure of success, though not to the point

The British Press: balancing costs, revenue and readers

Sheila Black reports on the financial health of national and regional newspapers

WITH the dispute at the Sunday Times deferred to see sales settling at around 2.55m. after passing 2.6m. before the stoppage. A highly successful free promotion, connected with the football badges and nicely timed for the season, had put an estimated 100,000-plus on sales in spite of the price increase in July.

The Sun looks set for a 2.5m. daily average for the current half year, just two years after its rebirth in November, 1969. The reaction followed in September.

True, September was in any case bedevilled by a five-day stoppage, affecting Sundays and dailies alike, and there is always a small core of readers that is slow to begin buying newspapers again after a stoppage. It is hard to tell whether the September trend was the result of the stoppage or of public realisation of what the price increases meant to the pocket.

The autumn has started well for "serious" newspapers, whose price increases have been staggered, but the extra pence on popular titles came more or less together, and at a time when many other price increases, in food and travel particularly, were making life rather costly.

All the serious titles have reason to be satisfied with their September progress. The Guardian is still riding higher than the others and still breathing down the neck of The Times. Its popularity is being bought at some expense—but profits do not always go hand-in-hand with popularity. The Guardian makes no secret of its losses, nor of its dependence on its Manchester evening stablemate, which is also facing the publishing truth of the narrowing gap between costs and revenue. There are, however, always price increases to cheer the Boardroom, and cover prices are gradually becoming more in line with costs.

Among the popular papers, sales have been patchy. The Sun's climb continued through the summer and the early autumn, to end September with circulation more than 70,000 up on August. Even so, its management, somewhat spoiled by

September's gain was not big, but it was reassuring. Advertisers have come back with greater support for an old favourite, and an all-round atmosphere of optimism has been generated.

For the first time since the Sun's genesis, the Daily Mirror has made the running, forcing its rival to compete and to spend when it had no particular plans to do so.

The Daily Express shed a few

taking time to find its following. In the last complete half-year before it changed its size and style—July to December, 1970—the sale was above 1.8m. copies and on a downward trend. As a tabloid, incorporating much of the more popular reading matter of the now-defunct Daily Sketch, it continued to aim at a similar market as the old broadsheet Daily Mail.

Neither the public nor the ad-

thinks—that too much emphasis is put on circulation figures and that what counts in the end is the financial ability to stay in business. In spite of that commonsense policy, its deeds are at variance with its spoken thoughts. Fleet Street is on something of a promotional treadmill.

Heavier promotional expenses, sustained over a longer period than has been usual in recent Fleet Street history, have been built into the balance-sheets of most publishing houses. Just before the September stoppage, some plans were shelved and have not shown signs of being revived, which must have saved several thousands of pounds all told. Even so, Saturday and Sunday nights, as viewers of commercial TV channels will know, are studded with screen presentations of good things to come in next day's papers. Even the serious Sundays join in.

While commercial TV companies are grateful to the Press for becoming another source of revenue, the Press is still holding its own in getting a healthy share of national advertising overall. Last year TV accounted for 23.6 per cent of all that was spent on advertising, apart from what was spent "below the line" on retailer incentives, special gifts and other point-of-sale schemes. The Press got 70.9 per cent of total advertising expenditure.

Share of the cake

National papers, both daily and Sunday, won a 20.5 per cent share of the whole advertising cake of some £300m. Regional newspapers collected 22.2 per cent, leaving the rest to technical, trade and consumer journals.

A newer threat from TV is the improved quality of its news reporting, and the greater depth and immediacy of its background and documentary material, allied to colour—more than in homes now have colour and demand is running high.

The BBC has set a particularly high standard, and one which newspapers are finding hard to match. In the regions, especially, newspaper publishers have been tending to suggest that local BBC television coverage, allied to local radio, has hurt circulations, to judge by all reports. A study of average circulations for the first half of this year belie those reports to some extent. For the most part, circulations have been steady, even edging upwards.

What has mainly hit provincial papers is not so much the feared rivals like Giveaways, TV, local radio and so on, but the economic situation. They are

as for some it is—it is herri

Drive for display ads

The regional problem has been to keep pace with and to raise advertising revenue to compensate for shrinking classified columns. There has been much effort to induce retailers to take larger, more frequent display space and with a fair degree of success in areas not badly hit by employment.

Efforts to get even a share of national advertising are working more slowly. Television is still thought to be faster measurement in the markets, although it is not clear why this is so. By and large provincial papers reckon lucky if they can get advertising to account between 8-10 per cent of the revenue.

So, while some are managed to maintain both sales and advertising revenue, too many are not operating profitably. There has been measured sales resistance to the last rounds of price increases, particularly as they have coincided so closely with rises in national papers.

For many newspaper publishers there is now a point beyond which they feel they cannot raise prices and retain readers in the required numbers. Costs, already mounting, have been swollen somewhat by wages and salaries over the past 18 months or so. Current negotiations stand at another £31m. to next year wages bill.

Both in Fleet Street and on the side, it is therefore very much a case of when it is good, it is very good. But when it is bad, as for some it is—it is herri

The Daily Papers . . .

National	Jan.-June 1971	July-Dec. 1970	Jan.-June 1970	July-Dec. 1969
Daily Express	3,436,214	3,518,444	3,607,460	3,722,416
Daily Mail	1,814,231	1,814,231	1,814,231	1,814,231
Daily Mirror	4,380,470	4,443,584	4,494,950	5,003,778
Daily Sketch	764,187	764,187	764,187	764,187
Daily Telegraph	1,454,581	1,415,556	1,402,342	1,380,502
Financial Times	168,213	165,047	174,754	171,232
The Guardian	327,897	384,102	383,232	290,018
Sun	2,082,686	1,721,533	1,595,230	1,595,230
The Times	341,242	375,855	401,756	426,164

Regional

	Jan.-June 1971	July-Dec. 1970	Jan.-June 1970	July-Dec. 1969
Birmingham Post	63,563	65,016	66,779	69,444
109,544	109,544	110,620	112,589	112,589
Liverpool Daily Post	94,525	89,338	90,448	93,163
104,139	104,139	107,155	111,272	112,913
The Journal (Newcastle)	45,659	43,944	44,460	44,126
Oxford Mail				

* Ceased publication in May
** Taken over by News International from IPC
*** Changed to tabloid in May

And the Sundays . . .

National	Jan.-June 1971	July-Dec. 1970	Jan.-June 1970	July-Dec. 1969
News of the World	6,170,890	6,242,270	6,215,079	6,421,889
The Observer	796,528	796,421	847,572	846,384
The People	4,941,728	5,037,589	5,241,697	5,416,810
Sunday Express	4,163,105	4,344,821	4,281,056	4,271,962
Sunday Mirror	4,686,554	4,797,436	4,885,296	5,136,675
Sunday Telegraph	751,673	770,736	785,406	780,020
Sunday Times	1,432,946	1,414,777	1,464,142	1,482,049

Regional

	Jan.-June 1971	July-Dec. 1970	Jan.-June 1970	July-Dec. 1969
Birmingham Sunday Mercury	222,050	221,640	224,392	228,715
Newcastle Sunday Sun	218,072	227,919	238,298	245,113
Northern Ireland Sunday News	96,750	87,444	78,486	70,824

out of the old Sun, whose sales had dropped to about 800,000. Delayed reaction to price increases may not have been solely responsible for the negligible check in the Sun's sales just recently. The Daily Mirror has been snapping back at its new-found rival. More, it has been setting the promotional pace at a cost of some £300,000-plus if my guess is right.

Whatever the cost—and the Mirror people admit that it has been expensive—the advertising is proving well worth it. Sales, in the doldrums until promotions were launched, have turned and begun to rise again.

The reborn Daily Mail is almost what most of Fleet Street

readers after the stoppage, and will probably end the current half-year with a lower daily average than for 1970. However, sales are now running below 1.8m., and tending marginally down. The management, however, is sanguine. Their attitude is that advertisers have got used to the change, like it, and are proving their liking with better bookings. As to sales, the Mail management is keener to be right than to be the right hand.

But publishers have yet to foot the bill for these five lost days, as well as for the increases negotiated at the end of it.

The reborn Daily Mail is almost what most of Fleet Street

MEN AND MATTERS

Holland opens the bidding again

There are three nice ironies about the bid that Burnholme and Forder is proposing to make for The Equitable Industrial Company of Scotland. One is that Mr. Tim Holland, of Crookfords fame and now chairman of Burnholme, will be bidding for a company that he was also chairman of, briefly, in 1966-67. The second is that Holland has been engaged in several libel actions over circulars issued by other EICS directors at that time, during the Board room battle then in progress.

One action, earlier this year, Holland lost in the High Court, and with another former director, Mr. Montague White, was ordered to pay costs estimated at £20,000. Another action two years ago, against Sir Andrew Murray, he won, also in the High Court.

The third irony is that Holland has just resigned from the Board of Palace and Derby Castle, which runs the Isle of Man casino; but Equitable Industrial, if he gets it, owns two casinos, in Liverpool and Portsmouth.

So is Holland just taking up the old fight again? Not really, he says. He and his associates took effective control of Burnholme earlier this year, the stock exchange suspension on dealings in its shares has been lifted, and several subsidiaries have been sold off (mainly in transport) and two added (in engineering). But, says Holland, the company is still one with relatively few assets, but good

profits, whereas Equitable Industrial has the opposite problem.

Besides the casinos, and three greyhound stadia it has recently sold off, Equitable has a recording machine business, two television shops, a chain of pawnbrokers (go well with the casinos) and two lots of freehold land. A good prize, if Holland can get it and as the EICS Board has already decided to oppose the bid on its previously proposed terms, Holland says he is "rehashing the terms" in an effort to secure it.

by training a chartered surveyor, from a family whose City surveying firm went back to 1847. So developing the Wharfingers' property interests (and finding the land outside London for Hay's Wharf to continue its main business) was very much in his line.

The obstacles have been numerous. One almost completed scheme was quashed by George Brown's office controls. But several elements from earlier plans are incorporated in the grand design unveiled yesterday.

Redesigning the South Bank

Sir David Burnett, chairman of Hay's Wharf, is now only a few steps away from seeing the long-promised redevelopment of his company's huge South Bank site start to become reality. The main hurdle yet to be crossed is GLC permission. Providing it is given, a hard time for the Hay's Wharf Board may be over. Failure to meet profit forecasts has been one criticism. Another, of late, has been Burnett's policy of playing his hand close to his chest. But considering the size of the project and the various developers who were first interested in the scheme and then withdrew, his reticence was perhaps understandable. Burnett in fact started to draw up plans for comprehensive redevelopment as long ago as 1949.

He came to Hay's Wharf originally to handle its property interests, having married a Bumphrey, one of the three proprietorial families that had been involved in the company since the 1750s. Burnett was

Gayelord aims at a century

"You British cook the hell out of your vegetables," complained Mr. Gayelord Hauser yesterday. Hauser has made himself a millionaire by preaching the doctrine of health through "intelligent eating." He has also kept himself remarkably fit the same way. At 76 he stands an erect 6 ft. 3 in., and says that when he has finished writing a cookery book *Tenderloin Cooking*, and his memoirs, he is going to "play a little—I have 24 years to go." His aim is to live to 100 (like, if I recall, George Bernard Shaw, who missed it by four years).

Hauser is in England briefly, in transit from one home in Sicily to another in California, to help launch a range of "Gayelord" Hauser approved naturally flavoured wafer biscuits, being marketed by OP Chocolate, which supplies "own label" customers like M. and S. Tesco, and Sainsbury.

Hauser calls himself "the Nader of the food business," and has spent the last 80 years campaigning about nutrition and diet. Hauser was born in the

Black Forest in Germany, got TB of the hip, and was pronounced incurable, until, he says, he met a "nature cure" doctor who cured him with vegetables and fruit, and set him off on the study of "natural diet."

He opened what was probably the first diet clinic in America in Chicago in 1923, and has lectured extensively—"I used to do 20 cities a year, now I do only 10." He went into association with Elizabeth Arden in a beauty farm in Maine in the 1930s, and has written 20 books—*The New Diet Does It*, *Be Happier, Be Healthier*, and so on—and a new Hauser Health Centre has just opened in Kyoto, Japan.

In France, where Hauser has an office, his products are distributed by Evian (the mineral water company, a subsidiary of the big glass firm, Bouygues-Souchon-Neuvesel), and Hauser says that if we get into the EEC, Evian might extend here. About three-quarters of the Paris clients are still women worried about their figures. But at least there is now 25 per cent men as well—"when young they come because of sport; later it is because of weight, and I have to say, sex."

Generation gap

Olifman Wendell Phillips swears this story is true. On a recent Pan Am flight from New York to London one of the passengers was Charles Lindbergh, now in his late sixties. "Welcome aboard, General Lindbergh," said the smiling stewardess: "is this your first Atlantic crossing?"

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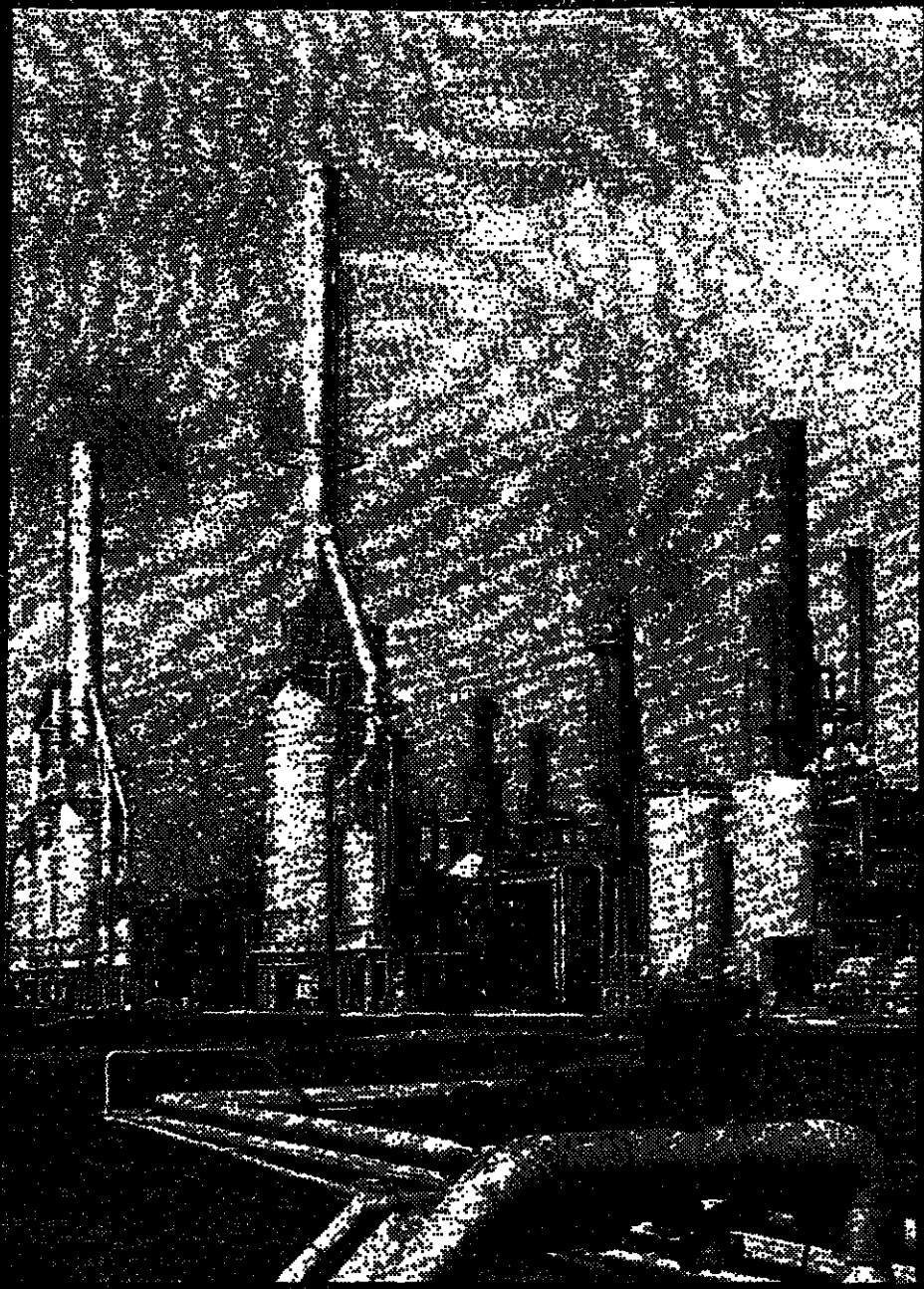
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tekh'níc (tek-níc), n. & v. = **TECHNIQUE** (usu. pl.) doctrine of arts in general; (pl.) technical terms, details, methods, etc. Hence techni'cian (tek-ní-shun) n., person skilled in the technique of a particular art, or in a generally, co. ist. n. [L.L. Gk. tekhníkos (tekhníkos art, see -ic)] Hence tékh'níc (tek-níc), n. of or in a particular art, science, handicraft, etc., as co. terms, skill, difficulty; of, for, in, the mechanical arts, as co. education, school.

pet'rol - éum n. Mineral oil found in upper strata of earth, used as fuel for heating & in internal combustion engines. (med. L. & Gk. petra rock + L. oleum oil); n. Refined petroleum as used in motor - cars, aircraft, etc.

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PROCESS PLANT II

Rapid transformation in the gas industry

By ADRIAN HAMILTON

There can have been few industries which have transformed themselves quite so fundamentally and so quickly as the U.K. gas industry. Traditionally a manufacturing concern based on coal, with limited high-priced markets; in the late 1950s and early 1960s the industry moved strongly towards a new technology of oil-based "town" gas. Barely had this development got under way than the discoveries of natural gas in the North Sea once again revolutionised the picture and started to change the whole direction of the Gas Council and Area Boards from a manufacturing to a marketing basis.

As the industry emerges into the 1970s, this latest revolution is already beginning to come to fruition. Enough gas has been found and contracted for in the North Sea to more than quadruple sales and take over almost entirely from coal or oil-based supplies. The peak of work on laying bulk transmission lines has now been completed and conversion of appliances among customers is well under way. Within the next few years the industry will have completed most of its natural gas programme and by 1978 there will be little of the old industry left.

The implication of these changes for the process plant contractors and manufacturers has been far-reaching. The industry has ceased ordering town gas plants from the early days of natural gas and has already reduced the number in service to 111. By 1977, almost all of these will have been closed as well. At the same time, the alternative opportunities brought by the enormous investment in converting the system to natural gas are also beginning to decline as the main transmission system nears completion and conversion—a field in which a number of contractors are now involved with specially-created subsidiaries—begins to reach its climax.

year and then down to £36m. in 1972, £46m. in 1973 and £48m. in 1974. Expenditure on plant and machinery in gas manufacture will virtually disappear to about £1m. a year in 1972 and 1973 and almost nothing the year following.

The main opportunities for large-scale work lie in compressor stations along the transmission lines, in liquefied storage being introduced at the extremities of the system and in processing capacity on the coasts to deal with new supplies of natural gas.

On the compressor side, the Gas Council has already completed two stations at Alrewas and Ambegate and has three more under construction at various sites near Peterborough, King's Lynn and Churchover. There are also a further five now being planned, two on Number 3 Feeder, one at the junction of Number 1 and Number 7 feeders, near Scunthorpe, and another couple for Number 5 feeder.

Finally, there remains considerable prospects for further terminal and processing facilities for new supplies of North Sea gas. The Gas Council, in association with the producing partnership of Conoco-National Coal Board, is already constructing a third terminal at Mablethorpe in Lincolnshire to take deliveries from Conoco-NCE's Viking field, due to start producing late next year and the site has room for further expansion should new fields be brought in off the coast. Facilities at the Bacton terminal in the meantime have been expanded to take gas from indefatigable field, while, further in the future, there is at least a possibility that gas from some of the major Norwegian fields of Frigg, Cod and Ekofisk could be landed in the U.K., should the Norwegian Government approve the idea of export ports from its sector of the North Sea. Phillips gas from

Cod and Ekofisk, at least, might be directed towards Teesside, while there is talk of a liquefaction plant on the Shetland Islands as the best means of dealing with northern finds such as Frigg.

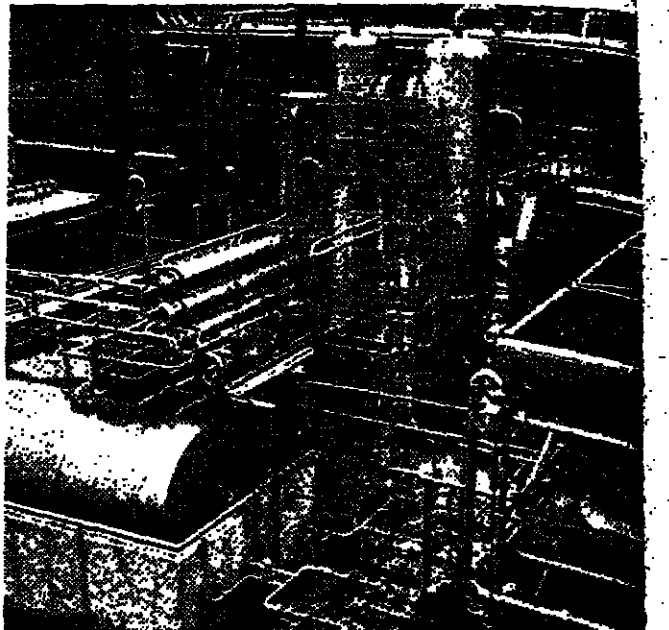
But, while the overall home market has declined in the gas field, a number of exciting new opportunities of gas manufacturing plant have arisen in the last few years abroad. The U.S., in particular, which has long relied on plentiful supplies of indigenous natural gas, is now facing the bleak prospect of gas shortages by the middle of the decade and a substantial gap in supplies by 1980. In Japan, demand for gas—previously relatively small in comparison with the total energy market there—has risen dramatically as a means of combating pollution have become increasingly forceful. In Europe and the U.K., governments are now having to plan against the time later in the decade and in the 1980s when indigenous supplies of natural gas are no longer enough to meet the strong rise in annual demand.

The development has turned attention abroad to the possibilities of supplementing natural gas supplies through the production of substitute natural gas (SNG) from oil and has resulted in increasing interest in the U.K. gas industry's experience in gas manufacture. Of particular interest has been the Gas Council's technology for oil-based manufacture of methanol, developed in its research divisions over the past two decades. The Council, and the British contractors involved in building plant for it, had for some time developed technology for production of town gas from lighter fractions of oil—more especially naphtha—using a patented Catalytic Rich Gas process (CRG).

Plants abroad

The process, licensed to contractors, has already been used in the construction of a number of "town gas" plants abroad, particularly in Japan (where Humphreys and Glasgow has built four plants with the possibility of one or two more still to come), and more recently in South America at Sao Paulo.

With the coming of natural gas, the industry turned its research interest to the creation of substitute natural gas (which has a different calorific value and make-up), using the same processes and licensing contractors such as Humphreys and Glasgow, Power Gas, Woodall Duckham and Whessoe with the CRG process. An SNG plant using the process has already been built in Italy as part of



Automatic removal plant installed at the Isk Grain Works of the South Eastern Gas Board.

a Liquefied Natural Gas complex tract for a SNG plant using at La Spezia and there has been interest shown in Japan and elsewhere, but the really big market has emerged in the U.S. Laporte Industries and over the past two years, and which is building catalytic converters through its 50 per cent U.K. contractors with the process are now looking for considerable business in North America.

Although U.S. companies such as Kellogg have been licensed with the process the opportunities have been particularly good for U.K. contractors; for in this case they have the advantage not only with the process but also with their considerable experience of the engineering and construction problems associated with gas manufacturing plant.

Humphreys and Glasgow, in association with Lummus, has already announced orders for two plants, worth \$52m., from Consumers Power Company and Brooklyn Union Gas Company, and more recently has been involved with Lummus in a major \$25m. contract with the Algonquin Gas Transmission Company of Boston. Under the terms of the agreement between the two contractors, Humphreys and Glasgow (International) is responsible for the fundamental process design and performance of the gasification of the plants, while Lummus has been licensed to engineer and construct them.

At the same time, Power Gas, through its U.S. subsidiary Wellman-Lord, has gained an important SNG contract with Columbia Gas, while Woodall Duckham, in a sub-licensing association with Bechtel of the U.S., is thought to be also negotiating a substantial U.S. contract.

Five contracts
So far the Gas Council has gained royalty business worth about £2m. in all the CRG process for substitute natural gas. The five contracts so far negotiated or in the process of negotiation in the cover plants with a capacity about 900m. cubic feet per hour and the total potential demand for SNG plants in the country expected to grow to more than three times this amount within the next few years. Long term, the Gas Council and U.K. contractors are also involved with research technology on manufacture of substitute natural gas from crude oil the heavier oil products through an oil hydrogenation process either by the gas recycle hydrogenator (GRH) method or fluidised bed hydrogenator (FBB) process.

These processes, though commercially advanced, do not suffer from the same limitations of feedstock CRG and could have considerable potential longer-term. GB has already been used extensively to supply high calorific gas with which to enrich lean gas from ICI steam hydrocarbon reformers up to two gas value; and the process licensed to a number of contractors, including Power Gas, Humphreys and Glasgow at Whessoe. The process, however, cannot cope easily with crude oil and sulphur, but it could have potential uses when introduced into a complex with desulphurisation of fuel oil.

FBB, on the other hand, can use crude oil with sulphur as has, therefore, much wider applications. The technology, however, is still at a relatively early stage and the process is expensive. The Gas Council, already associated with Japanese pilot plant run by Osaka Gas, but really needs the impetus of a commercial plant in the U.S. to get a take-off demand. It is now discussing with two U.S. consortia the possibilities of setting up demonstration plant.

Just how big a market, the substitute natural gas field will provide for U.K. industry is still uncertain. Competition from Lurgi, the German group, is strong, while a Japanese company, Japanese Gasoline, has also entered the field with a process. But the potential is clearly very considerable and on present performance at least, both the U.K. gas industry and the plant contractors and manufacturers have shown themselves in a strong and aggressive position to tackle it.

Continued on next page

Planning for a bigger electricity demand

By HAROLD BOLTER, Industrial Correspondent

Official estimates of the growth of electricity consumption in the U.K. have been scaled down appreciably over the last few years as a direct consequence of low national economic and industrial growth. If there is any consolation at all for process plant manufacturers it is that power station plant ordering is now "about at its nadir," in the words of the Central Electricity Generating Board, and should tend to increase from now on. Refractory measures brought in by the Government over the last six months should also help to bring about improvements in a market which has fallen sharply in the last year. Overall growth in the economy on the scale now being predicted by the Government should bear directly on the market for electrical plant eventually.

Recent slippage

The process plant industry's interest in electricity supply is a significant one, despite the recent slippage. The industry supplies boilers, nuclear heat exchangers, pipe-work, condensers and feed water heating plant, pumps, valves, controls and instrumentation to this market.

The extent of the fall in demand is clearly shown in official returns from the CEBG and the Scottish electricity board. In 1970 orders for process plant equipment were worth £53m., with a 20 per cent weighting for erection costs, but this year the value of this business is not expected to exceed £39m.

The extent of the cut-back within turbo-generator manufacture itself and on ancillary industries producing process plant.

Recent heavy redundancies in the electrical plant industry itself underline the extent of the problem created by the CEBG's reduction in its investment forecasts. A considerable part of the 10,000-11,000 reduction which has taken place in the 200,000-strong labour force of the General Electric Company can be attributed to this.

This, inevitably, has had a reduction in CEBG ordering strong effect on employment and redundancies within Rey-

rolle-Parsons have similar roots.

One of the major problems for the industry is that caused by fairly violent shifts in the level of orders it receives from the electricity supply industry in the U.K. Although these movements are to some extent predictable this is not always the case.

Forecasts of likely future demand for process plant to be used in electricity generation in the U.K. must be treated with some caution, as they were pre-

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Forecasts of likely future demand for process plant to be used in electricity generation in the U.K. must be treated with some caution, as they were pre-

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PROCESS PLANT III

High cost of credit cuts Britain's export chances

by DAVID CURRY

Britain's exporters of capital equipment are becoming uncompetitive not because they are doing too much to do the job, but because the credit terms they can offer are in many cases substantially higher than those tendered by other countries.

This view is widespread among British exporters. They point out that their customers are asking increasingly at the cost of credit. But, so far, they appear to have failed to convince the Government of their case for cheaper credit. At the centre of the growing discontent is the Government-backed Export Credits Guarantee Department, through which export credits are insured. About a third of the value of British exports leave these shores under ECGD cover. The vast majority of exports are financed under supplier credit arrangements, where the exporter sells on credit terms and arranges the financing of a credit as a purely domestic banking operation.

ECGD guarantee

Increasingly, however, British goods exports are now being financed under ECGD buyer credit arrangements, where a British bank or syndicate of banks makes a loan to a foreign borrower. The loan is unconditionally guaranteed by ECGD and is repaid to the exporter on the equivalent of cash terms. Clearly, banks have become increasingly interested in negotiating and managing loans under ECGD buyer credit facilities. Generally, they co-operate with merchant banks so that the merchant bank is the syndicate leader and the clearer puts up the money. The interest rate for this kind of lending is fixed. It is now 7 per cent, having been 5½ per cent. until October, 1970. The result of the 7 per cent. rate per cent. rate was preferential compared with a Bank

Rate of around 8 per cent. With Bank Rate now 5 per cent. many exporters regard the 7 per cent. rate as punitive. However, the attraction of the rate originally was less that it was preferential than that it was fixed for the life of the loan.

There are three broad types of buyer credit facility. These are: (i) *Financial Guarantee*. Designed for major capital projects. The buyer generally pays 20 per cent. direct to the exporter including at least 5 per cent. on signature of contract. The balance is paid to the exporter by the bank handling the loan arrangements. Repayment period varies between five years and (very unusually) 15 years. (ii) *Buyer Credit Guarantee*. A "mini" form of Financial Guarantee generally for projects of less than £1m. with a five-year credit period.

(iii) *Line of Credit*. British banks put up credit up to a specified amount which the buyer can call on to pay for purchases made in this country. It operates rather like a current account. The buyer is free to haggle with producers over the price he will pay.

It is usually claimed that buyer financing under ECGD cover has advantages over supplier credits. When the rate was 5½ per cent., this was so. Work in progress could be financed from the loan, paying interest on these borrowings at 5½ per cent., less than it would have cost the exporter to finance work in progress. With the rate at 7 per cent., the exporter can borrow money in the market place at more than 2 per cent. cheaper than the buyer is able to do.

Financing charges under a buyer credit arrangement are payable by the borrower. He is therefore able to identify them for his own assessment of costs of a project or tender. The result of the 7 per cent. rate has been that prospective customers are telling British com-

panies that their tender is acceptable and their prices right, but the cost of borrowing the money to pay that price is too high.

Berne agreement

The above complaints deal with the 7 per cent. rate. But it is difficult for companies to prove that the high rate is why they lost a contract. It is difficult to assess the rates being offered by other countries, since the opportunities for administrative sharp practice, despite the diligent obedience towards the Berne Union agreements, are legion.

Generally it is estimated that the French rate works out at something under 6 per cent. (though I have seen it worked out at nearer 7 per cent.) and the Japanese rate at 5 per cent. It must also be remembered that the cost of ECGD cover and certain bank charges must be added to the 7 per cent., bringing it to about 7½ per cent. in practice.

Complaints are also levelled at the length of credit being offered. The ECGD will improve terms if it can be proved that other countries are offering better—the so-called matching principle. Apart from being very difficult to prove (competitors do not naturally tend to disclose information to an enemy), there is little heroic about a policy of always being one move behind the opposition.

Credit is part of the competitive nature of any bid, but it is the part over which the bidder has no control whatsoever. Some companies have been obliged to subsidise their purchaser's borrowings by carrying part of the cost of a 6 per cent. rate. But companies cannot do this and make money. The absurdity is that in this situation ECGD is carrying exactly the same risks as if it were 7 per cent.

A further charge levelled

against ECGD is that it is very difficult to get a quick decision because it is so difficult to approach the mandarins in the Treasury. As one exporter put it: "It is the ability of the other side to move quickly when we are bogged down. An Italian can get an answer with one phone call. It takes a week from London. The Treasury seems to think that the country can only lend the equivalent of its trade balance."

"There is no distinction in the market between those countries that can afford to pay and those who can't. Kuwait is still paying off loans at 8½ per cent. while it has balances in London earning 8½ per cent. Some oil countries are lending to poorer countries and borrowing from us."

A final complaint is that ECGD cannot send its men overseas to the scene of action. Everything must be done by reference to London.

ECGD, being a Government-financed body, finds it hard to answer these criticisms directly. However there are defenders of the logic of 7 per cent. rate.

They point to the general Bank of England relaxation on the monetary system. There is now, they believe, far less of a deal to be done on fiddling liquidity ratios and less room for the Bank of England to do a deal on liquidity requirements. (The money lent at the export interest rate did not come under the lending ceiling imposed on the clearers). Also, the freedom in the lending market seems likely to push

commercial interest rates up whatever the Bank Rate is doing. There will be a lot of extra lending at higher rates, and, if marginal lending rates shoot up there will be a suction up on interest rates. Why, they point out, should banks bother with a 7 per cent. export rate when they can earn higher rates on risky ventures.

If this analysis is correct, then there seems to be a case for subsidising export lending by the Government. This is one solution, but simpler schemes have been put forward.

Rate cut

The first is the simplest of all—a straight cut in the rate. The British Export Houses Association has called for a scheme whereby the major exporting concerns would establish a fund into which they would pay when rates were low and from which they would subsidise high rates. The general effect would be a constant 6 per cent. rate.

The most radical solution is for the establishment of an export-import bank. This is not going to get very far at the moment. Exporters are generally doubtful whether the Government would give the Bank the independence and scope necessary to make it worthwhile. This would include the authority to lend money, and merchant banks enabled to lend money at any rate they could negotiate. The best solution, according to some exporters, and one which would overcome the reluctance of the

City to surrender its expertise in financing, would be for the merchant and joint stock banks to form a conglomerate in the export field. This would enable exporters to have access to the different skills of the banks and their individual experience in particular markets.

However, ECGD itself disposes of a great deal of expertise, and exporters unfailingly praise the personal help they get from the Department. Their complaints are ones of structure and authority. The Department is moving to close an important gap in its cover by introducing insurance against political risk and it may ultimately accept the strong tendency for buying countries to insist on arbitration on their own soil and in their own courts. It is also heavily involved in work involved in Britain's probable entry into the EEC, and it is clear that the Government is hoping for a more rational and standard European framework for credit insurance.

Meanwhile, companies are being faced with the simple choice: lose the order because the rate is too high or fail to make money on the contract because the rate has to be subsidised. Our balance of payments is artificially high. Exporters need assistance now, while we have some time in hand, rather than later when they are being exhorted to go out and die for their product in patriotic tones by politicians telling us that we are always at our best when we have our backs to the wall.

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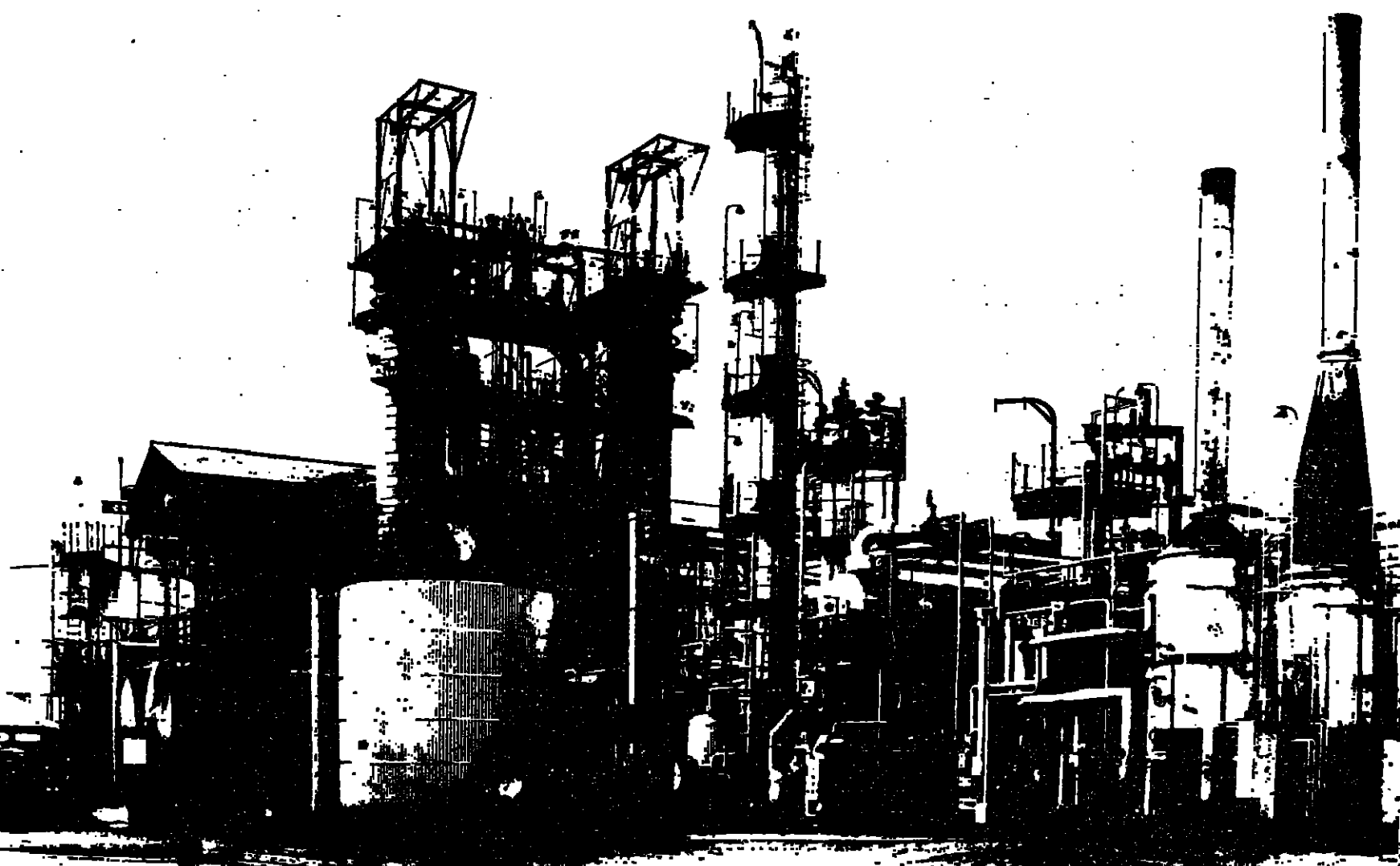
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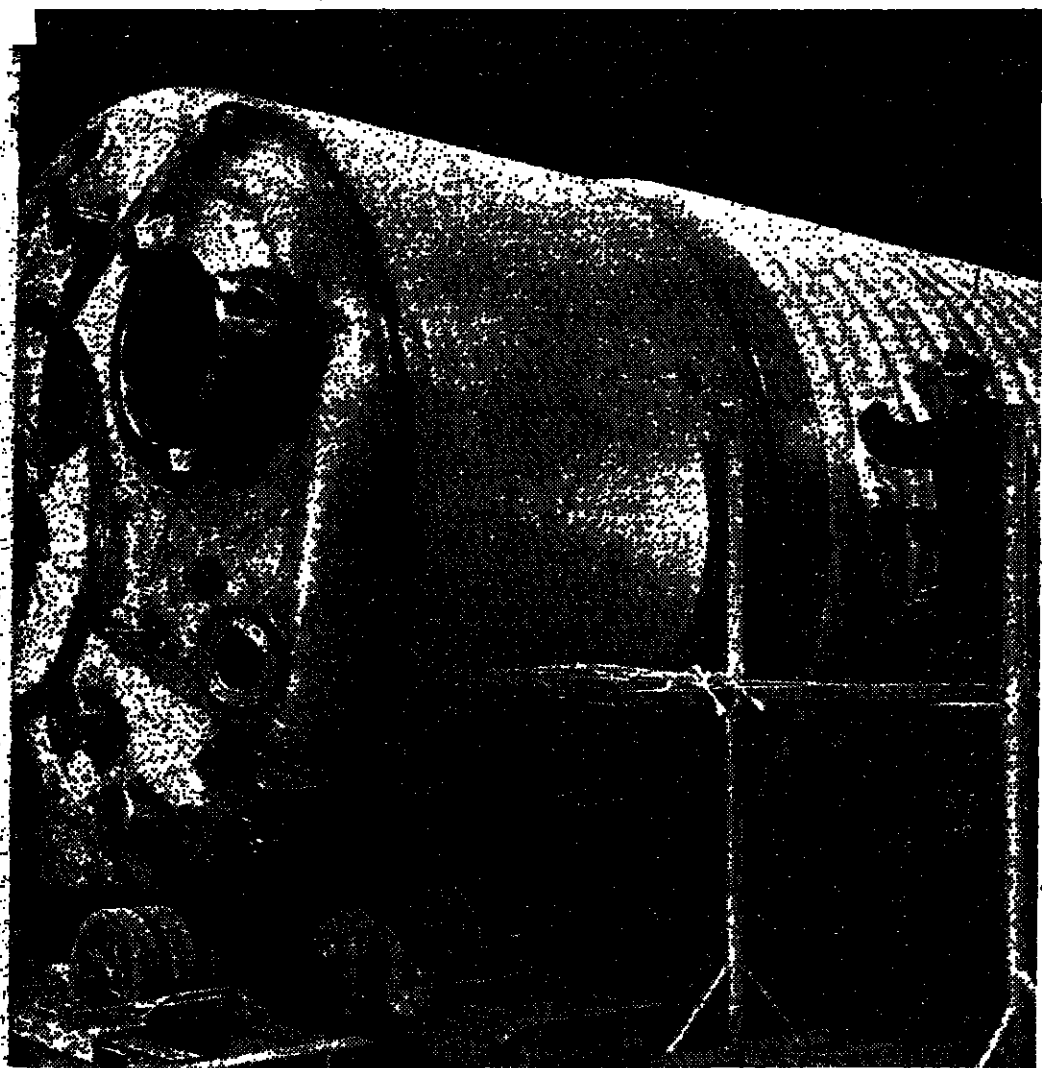
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One of the eight identical 6,250-gallons-capacity stainless steel fermenting vessels at the Hyde works of SSV Ltd., Cheshire.

Electricity —(Cont'd)

continued from previous page
ared before the Budget and subsequent measures were introduced. For this reason an estimate of spending on process plant equipment at the rate of about £37m. next year and some £5m. in 1973 may turn out to be on the low side, although there will be a two- or three-year lag before the real benefits of reflation show through.

Another factor which may have an important influence on the situation is Britain's likely entry into the Common Market. Membership of the EEC has a dynamic initial impact on industrial production which it had for the present members of the Community there would be noticeable improvement in ordering by the electricity supply industry.

For the moment, however, process plant manufacturers are only plan for the future within the context of a forecast of a 5.5 per cent. advance in demand for electricity in the U.K., rather than the 6 per cent. believed to be possible earlier.

The Association of Super-

visory and Executive Engineers has pointed out that entry into the Common Market will have other implications for the heavy electrical plant industry, and therefore for process plant manufacturers in general.

An enlarged EEC will have a considerable surplus of manufacturing capacity in the overall area of turbo-generator production and by the late 1970s the main export potential for this equipment could well lie in the hands of European, rather than American or Japanese, manufacturers.

Technical links

Mr. Stanley Steward, the association's President, feels that there is scope for technical links, working arrangements or full-scale mergers across national frontiers in Europe in the field of turbo-generator production, and this suggestion could equally well apply to process plant manufacture.

Equally, he feels that perhaps as few as three or four large companies will remain "economically tenable" in the field of turbo-generator manufacture by

the late 1970s. This, in itself, would bring pressure within the hardware sector of process plant for the formation of fewer and even larger undertakings.

It is imperative, however, as Mr. Steward points out, that a policy of open tendering should apply equally to all substantial electricity utilities, private and public, within the enlarged EEC. Unless this is so, manufacturers in Britain would have grounds for complaint, and the CEEB would be justified in restricting its tender lists.

Nevertheless, the Common Market presents process plant manufacturers with a considerable opportunity, particularly those companies with sufficient technical expertise and design and marketing ability to take advantage of the lowering of tariff barriers.

The U.K. market, although disappointing over the last three years, should begin to revive soon and could become extremely buoyant towards the end of the decade with demand for electricity growing more strongly and older plant needing replacement.

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PROCESS PLANT IV

Optimistic prospects for oil refining

By ADRIAN HAMILTON

In contrast to the chemical and other major processing fields, oil refining in the U.K. has emerged from the past few years of general economic sluggishness with highly optimistic prospects for growth. Though U.K. energy demand has not increased at the same rate as Western Europe as a whole, it still remains strong. The decline of coal and the delays in the nuclear power programme have left oil as the major form of primary energy over most of the last decade, while the tightness of supply last winter has dramatically illustrated the country's dependence on healthy refining capacity. It has also enabled the industry to achieve higher profit levels in the market than for many years. Refining capacity in the U.K., having already more than doubled from 49.2m. tons per annum in 1960 to 112.5m. tons last year, is now predicted to reach 135.5m. tons in 1973 and over 150m. tons by the middle of the decade.

A recent survey by the Process Plant Working Party of the National Economic Development Office has pointed to an especially strong surge of investment by the industry over the next few years. Though delays in completion and execution of certain projects produced an overall 27.4m. capital expenditure on petroleum refining last year, some 11m. less than previously forecast, expenditure this year is predicted to reach a level of about £123m. and to rise again to £154m. in 1972 and £180m. in 1973, before falling to below £100m. in 1974 as the major projects are brought on stream.

Major projects

This, the report argues, is about double the level achieved last year and is mainly due to a large number of major new projects which have been brought forward since the Working Party reported last year, partly as a result of the re-thinking that has followed last year's energy problems. Some 40-50 per cent of the total refining expenditure is on manufactured goods, mainly process plant and largely individually designed, rather than standard items. The report also predicts a rise in



Part of a complete 87,500 barrels a day oil refinery.

expenditure on distribution on stream by early 1973. At the same time, the company is also completing an expansion of its Fawley plant facilities to raise capacity from 16.5m. tons to 19m. tons by the end of this year.

British Petroleum, which expects to land the first U.K. North Sea oil from its Forties Field off Scotland by late 1974, early 1975, is now "seriously considering" further expanding its Grangemouth plant, where capacity has only recently been raised from 4.5m. to 9m. tons as part of a £73m. oil/petrochemical investment programme. The latest plan would involve doubling capacity again to about 19m. tons at a cost of about £30m., partly to absorb North Sea oil piped from Forties Field to the coast at Peterhead and then south on-shore to Grangemouth.

Of the other existing refining groups in the U.K., Burmah is now completing its long-delayed £30m. programme at Ellesmere Port (with Kellogg as main contractor). The project is designed to take capacity there from 270,000 tons a year to 1.5m. tons and enable the group to be almost self-sufficient in supplies of lubricants and white oils. Gulf is extending certain facilities at its Milford Haven plant and both the Total-Petrofina partnership and Mobil are planning "de-bottlenecking" exercises at their U.K. plants.

Recent entrants

In addition to these major expansion projects, which will form the backbone of new investment over the next five years, there is also a number of more recent entrants to the generally successful policy of encouraging self-reliance on oil products within the country, but the new units are due to come U.K. The most immediate of

these is Amoco, which recently gained planning permission for a large 4m. tons-a-year plant at Milford Haven. Work on the £40m. programme, with Procon as the main contractor, is now under way and completion is expected in 1973.

In South-East, there are a further three major projects now awaiting planning approval. On Canvey Island, Occidental Oil is proposing a 5m. ton refinery complex at the same time as ENI and in association with Murco of the U.S. is seeking for permission to build a 4m. ton a-year plant on an ENI site nearby. More recently, Total and Burmah, both of which have refining capacity elsewhere, have joined together to seek a 6m. ton a-year project at Cliffe in Kent.

Efforts to build new refineries in the U.K., however, have raised a serious problem over planning permission in the last few years. Both Murco and, earlier this year, Chevron have been refused permission to build plants in the Clyde Estuary area of Scotland after long delays and considerable argument. Amoco itself had to wait more than 15 months for permission and there is still considerable opposition by local interests to the idea of constructing two new refineries on Canvey Island.

The issue is far from being a simple one. On the one hand, there is little doubt that the country will need a high rate of investment over the next ten years if a shortage of indigenous refining capacity is to be avoided. So far, the U.K. Government has followed a

policy of encouraging self-reliance on oil products within the country, but the new units are due to come U.K. The most immediate of

Little doubt

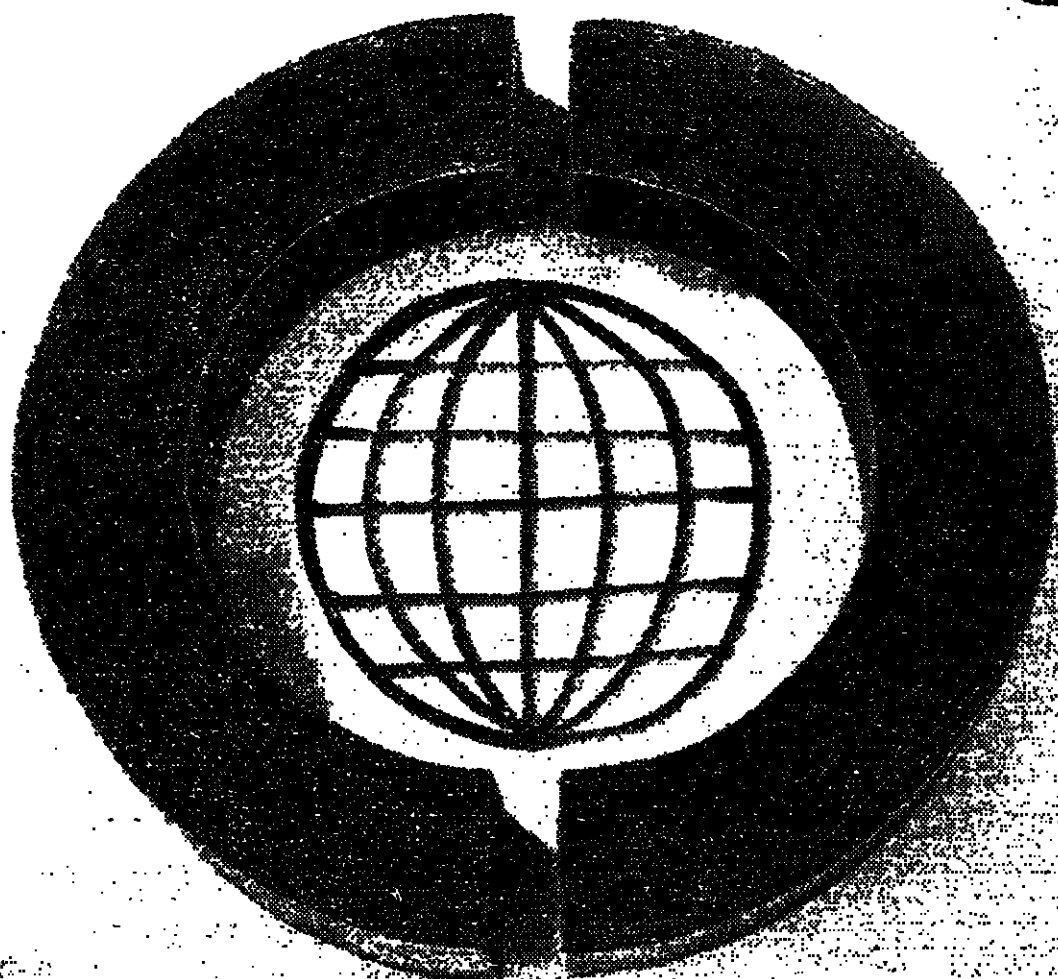
Against this, there is little doubt that the strength of local feeling against new process plant on the scale of modern refineries has become politically powerful and is far from unjustified. The attractions of the U.K. to oil companies is stronger than their warning might sometimes suggest. The coastline has good ports and deep water to handle large tankers. The market is a big and growing one and the conditions relatively free from restrictions. What is needed is a better, "warning light" system for projects likely to be sensitive and a more efficient method for speeding up the whole planning application process without damaging a fair hearing for all interests. Most of the pollution problems associated with refineries can be solved at a cost as can the problems of siting them. Better understanding between the oil companies and local interest coupled with much earlier consultation between them, is developing. While the problem is bound to continue to delay projects and upset them, the opposing interests of environmentalists versus economic need are of necessity incompatible over the long term.

While refineries will remain the major, and most trouble some, field of oil activity for the process plant industries however, the discovery of oil in the North Sea is also raising new and dramatic opportunities. At least two oilfields have been already discovered in the U.K. and by the latter half of the decade as much as 1m. or more barrels of oil a day could be flowing to the U.K. coast. This will involve major crude oil pipeline investment by the oil companies as well as substantial expenditure on terminal and processing facilities on the coast. So far, most of the work has been done by U.S. contractors (who have more experience of off-shore exploration and production), but as development will be there for the more enterprising U.K. companies to take advantage of.

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New move towards stability

By Commander J. A. HAMER, Director, Process Plant Association

The process plant industry has five main customers, the chemical industry, the oil and petroleum industry, the power-production industry, the steel-making industry and the food and drink processing industry. Of these the first two absorb about 60 per cent of the plant manufacturing capacity.

The users are thus fairly clearly defined and are either direct customers or work through contractors, in either four-year ordering cycle and large and powerful. They come with the Continental Trade Associations would endorse this hope.

The failure of the manufacturers to compete with the unexpected and unusually high demands in 1965-66 led to an investigation by a Committee of Inquiry on Pressure Vessels and later to one by a Process Plant Expert Committee, and among their many recommendations they noted with concern that the interests of the manufacturers were represented by so many trade associations.

During 1968-69, an investigation into the multiplicity of Trade Associations was carried out by the officers of some nine associations and gradually it became clear that the greatest difficulty in getting together lay in some associations being customer-orientated irrespective of product, while others were product-orientated irrespective of customer.

Depressed prices

The severe competition has led to depressed prices and very small profits and this together with the cyclical nature of the market has led to certain inefficiencies and the lack of enough liquidity to up-date staff and plant. At the same time the need to work with as many as nine trade unions in one firm has led to under-utilisation of labour. In times of short order books the well paid highly

skilled men must be kept on, as once paid off they are lost for ever, and expensive capital plant must stand idle while customers complain of the prices. In times of plenty there is never enough capacity and customers complain of the deliveries.

It is to be hoped that the extension of the home market when U.K. enters the EEC may clearly defined and are either direct customers or work through contractors, in either four-year ordering cycle and large and powerful. They come with the Continental Trade Associations would endorse this hope.

This first step has not been taken without incident, but such incidents as there were have only served to show the need to ensure that further projects must be based on sound foundations. Meanwhile it is hoped that the Process Plant Association (PPA) will fulfil the hopes of its founders and prove of value not only to its members but also to customer, supplier, manufacturer and statistician. At least it will cut down half the alphabet to a mere three letters.

For the first two years of its existence the PPA will be governed by a "transitional" council drawn from the various constituent members at directors' level, under them at senior level will be specialist committees dealing with technical and commercial matters. The Commercial Committee has already established links with the process engineering contractors and with the British Steel Corporation, which are proving of great value to both sides. They have also arranged discussions on the harmonisation of European conditions of contract and terms of payment.

Technical activities have been made the responsibility of a Fabrication Committee and a Process Engineering Committee. On the fabrication side the Association has a joint technical committee with the other Trade Associations concerned and also with the British Steel Corporation. Considerable effort is being expended on attempts to co-ordinate research and development, and also to institute a National Inspection Authority. Many members are working on new technologies and much work must be done to support them in meeting and reducing the risks involved. British, European and International Standards are under constant discussion.

The Process Engineering Committee will seek to monitor research of interest to members and to maintain a close liaison with user industry associations on technological matters specific to those sections of the process industries, and will be particularly concerned to maintain the close technical liaison with the Food Manufacturers Federation, which the Food Machinery Association enjoyed for some 20 years.

A further major task of the association is the examination of the effect upon its members of Britain's entry into the EEC, particularly with a view to expanding trading opportunities and investment. PPA is represented on CIB Council, BRIMEC Council, NEDO (Process Plant Working Party), all relevant BSI Committees, the Welding Institute and the Iron and Steel Consumers' Council. Links are maintained with all three European Trade Associations dealing with process plant and the association hopes to continue to play its part in international and informal working groups and committees to the benefit of its members.

PROCESS PLANT V

Chemicals side hit hard by inflation

by JOHN TRAFFORD

To the pessimist, news about the chemical industry these days seems one long string of setbacks, cut-backs and plant closures. The unprecedented drop in sales and profits during the 1960s has become a painful reminder of the contrast between past riches and present penury. No longer does the City glibly categorise chemical companies among the natural growth stocks.

Yet, despite the gloom, chemicals' supremacy among the process industries in terms of investment will go unchallenged for many years to come. At present the chemical industry accounts for some 10 per cent of process plant investment in the U.K. Furthermore, the industry, in common with oil-derived energy but in contrast with other process industries, can gain sales not only through a general quickening of the economy but also through substitution of chemical products for traditional materials.

Steel, electricity generation and food processing, to the other hand, rely almost solely on an increasing demand for a higher level of industrial activity.

Although chemicals do have a strong strategic position in a modern economy, the short-run problems facing manufacturers are hair-raising to say the least. Over the past two years, the cost of chemical plant has shot up by anything up to 30 per cent; the rapid rate of process innovation, which held down production costs in the 1960s, has faltered; personnel and raw material costs have spiralled up, above all, the growth in demand has suddenly slackened.

British manufacturers, unlike most of their foreign competitors have also found the net cost of new plant sharply increased. Mr. Barber's switch last October from investment grants to tax allowances. True, the government's help to capital investment is still exceedingly generous by international standards; but that is little compensation to a British company which has based its profitability calculations for a new plant on the old cash grant system. The international oil majors who pay no U.K. tax have inevitably been particularly hard hit by the new system.

Strenuous efforts

To maintain or regain profits, manufacturers have made strenuous efforts to pass on their higher operating and raw material costs in higher selling prices. Progress on that front, however, has been uneven. In the key petrochemical area—high provides raw materials for plastics, fibres, paints and detergents—figures from the Department of Trade and Industry suggest that prices are rising at an annual average rate of over 7 per cent, which is far below other chemical sectors and quite inadequate to counter the onward march of cost inflation.

Building specialised plants

by Brigadier J. B. BIRKETT, Director, British Chemical Engineering Contractors Association

Building new plants is a vital activity in the process industries; the design and construction of a complete installation often absorbs as many man-hours as are needed to run it for its entire working lifetime. It is therefore not surprising that some of the largest process companies, particularly in the petroleum and chemical fields, keep substantial engineering staffs and build at least some of their own installations. Nevertheless, the use of specialised contractors for doing such work continues to grow and it is worth asking why.

Partly hidden

In the first place management increasingly realise how expensive it is keeping an engineering department big enough to do even part of their own design and construction work, a fact which is often partly hidden by being charged to other activities like development; contractors on the other hand are a competitive market and free to offer good value for money. Another major factor is the increasing number of companies in such industries as food processing which have not in the past been generally considered as "chemical engineering" but which are now beginning to realise how the skills of chemical engineering can be applied to their problems. Such companies often do not carry an in-house design and construction team and they are now coming to appreciate the time and money a reputable process contractor can save if he is called in at an early stage; they prefer this to the alternative approach of building up their own staff for a project and then having to run it down again.

British process contractors have been building specialised plants all over the world for a long while; however, during recent years they have greatly increased the range of processes and the size of contract they can handle as well as pioneering a number of territories such as Eastern Europe. Contracts over £10m. are not uncommon and some of them, like the \$40m. Polyspinners plant in Russia, are of great complexity. In variety these range from petroleum and petrochemical to pharmaceutical, from fibres and food to fertilisers, from ore treatment to smelting and hydro-metallurgy; and from heavy organic chemicals to the most intricate cryogenic units. These firms are represented by the British Chemical Engineering Contractors Association.

They have been responsible for a huge volume of export business, to the benefit of British manufacturing industry, and their skill and experience in handling any sort or size of contract is available to the process industries all over the world.

Nevertheless there are problems that British process contractors have to face, and these were explored recently by the Process Plant Expert Committee (the Wright Report). There has for example been a tendency with British process companies to handle their

actual drop in 1972 will if anything be greater in real terms. For 1973 the Working Party has forecast a further decline to £280m.

Unofficial estimates are certainly anything but encouraging. The weekly journal Chemical Age in its annual review of current U.K. chemical investment reported that only £202m. worth of new projects were at the planning stage in mid-1971 compared with £392m. a year before. The figures included oil refinery investment and, when this is taken out, the two-year comparison shows a drop of more than half.

Besides fewer new projects, the British chemical industry is going ahead more slowly with what is in the pipeline. By far the most dramatic event of the past year was Shell Chemicals' announcement last January that it was reviewing the whole of its £225m. expansion programme at Carrington and Stanlow in the north-west. The outcome was that many of the most expensive plants would be delayed by two years or more.

BP Chemicals' £85m. petrochemical expansion at Baglan Bay has been subject to unscheduled delays from labour unrest and late delivery of equipment, but not to any planned rephasing of the more important plants in the complex.

Scope for investment cut-backs at Imperial Chemical Industries has been rather more limited than with the two oil companies as 1971 has marked the final year in one of the company's periodic bouts of investment enthusiasm. In March the retiring chairman, Sir Peter Allen, estimated that expenditure in the U.K. this year would be a little above 1970's level of £118m. but that there would be a marked cut-back in 1972 and 1973.

Least worry

Perhaps surprisingly, one of the matters causing least worry in ICI's headquarters in Millbank and over the river at Shell Centre is the prospect of U.K. membership of the Common Market. Both companies have for so long been operating on a truly international scale and, especially with Shell, have set up so many production units in the EEC and elsewhere that an enlarged community will do little more than simplify an already existing commitment to serving the west European markets. BP Chemicals, on the other hand, may have a little further thinking to do since it has important but not controlling shareholdings in French and German petrochemical manufacturers dating back to the days before it became a major force in the British petrochemical industry through its acquisition of Distiller's chemical interests, many of which used to be jointly owned with BP. These Continental shareholdings fit somewhat awkwardly with the wholly-owned chemical manufacturers.

Site work

Another point of controversy has been the problem of late completion and cost over-runs; but these difficulties are by no means confined to British contractors nor indeed to the process industries—other types of site work such as generating plant construction have been worse hit. Part of the difficulty is due to the inability of the equipment manufacturing industry to adjust itself to successive waves of boom-and-slump and part to the ever-present need for technical innovation and for larger, untried limits. But both contractor and client can do something positive about keeping these problems within bounds if they co-operate in resisting any temptation to make late design changes, which are responsible for a great many of the delays that occur in practice.

Traditionally contractors and clients are pictured as being at loggerheads; but their interests are by no means always opposed, and a little mutual understanding will greatly benefit both parties. For example a common of the two sides need not clash is that caused by inflation—a situation in which a client may mistakenly believe his interests to be best served by demanding fixed prices, but when in fact a properly drawn escalation clause will keep down the price he has to pay by avoiding the need for the contractor to guess how much inflation there will be during the contract period. Again, a client who realises how much effort and cost are involved in producing a fixed-price bid will not ask a contractor for one merely for check purposes and will usually offer to pay at least some of the cost. In any case most projects of any size are so ill-defined at the tendering stage that fixed-price bids are a waste of time and it is usually much fairer for a client to select a contractor on the basis of his experience, record and qualifications and then develop the scheme in close collaboration with him. There is no difficulty in choosing a form of contract which will protect the clients' interests at every stage while also giving the contractor a real incentive to keep the cost down and get on with the work as fast as possible.

The British process contractors are an integral and most important part of the process industries of the U.K. and they serve the world.

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Petrocarbon Press Release

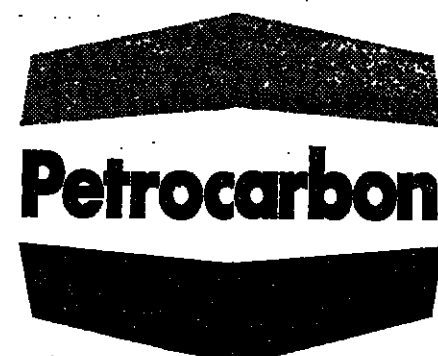
Petrocarbon have been awarded an export contract for a Propylene Oxide/Propylene Glycol Plant by Polimex of Poland. This plant will be built at Rokita and will incorporate the most up-to-date developments in the chlorhydrin process. The propylene oxide to be produced will all be of the polyol/polyether grade and the glycol will be of pharmaceutical grade. The selection of this process is more economic than the 'direct oxidation' process medium capacities this process is more economic than the 'direct oxidation' process — and will remain so for some years to come. In this particular contract, the propylene oxide capacity is 12,000 t.p.a., only a part of which is converted to glycol. The investment cost is of the order of £1,000,000. Originally this was planned as a conversion unit from a small old chlorhydrin/ethylene oxide plant, which Petrocarbon were to have revamped. Because the estimated requirements of propylene oxide in Poland had trebled in the interim period, it was decided to build an entirely new plant. Petrocarbon are making full use of the wide engineering capabilities of Polimex in the completion of this contract and the bulk of the fabricated equipment will be of local supply.

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PROCESS PLANT VI

Contractors look for overseas business

By L. B. BAKER and D. A. J. SAMOLS, Stone and Webster Engineering Ltd.

The last twenty five years have seen the rapid growth of a number of long established engineering contractors in various countries and more recently the appearance of even more newcomers. The attraction presumably has been the apparent substantial profits to be earned in good times by a service organisation such as the contractor whose cash assets are often minute in relation to the value of the plant to be built, and whose principal costs are those of his staff. As a result, there are now approximately twenty contractors established in London alone, an apparent sign of a successful industry—but what lies behind the facade?

Poor quality

Firstly, when a recession occurs the contractor's very nature can make him vulnerable because his staff being his principal asset, there is little to sustain him as orders fall off and this has led to the regrettable tendency of some companies to adopt a "hire-and-fire" attitude as conditions fluctuate with inevitable result of dissatisfied and poor quality staff. Secondly, because of the high building rental costs in London and the demand for extensive support services, the "break even" point for most contractors represents a disconcertingly high loading factor for his staff if reasonable profits are to be earned, and this factor can well be as high as 75 per cent. of the production staff, i.e., engineers and draftsmen employed on current projects. The third and obvious point is that in a recession new projects are usually the first to suffer so that the contractor's market can vanish literally overnight. Other factors such as technological obsolescence can have the same effect, as for example, the result of the North Sea gas discoveries on the naphtha reforming markets.

None of these problems are new for the industry which has long been resigned to the cyclical habits of ordering of its principal customers. The current fall-off in world trade has, however, brought them into greater prominence for a variety of reasons which have led to a degree of soul searching and changes already. Some

of these reasons are discussed below but it must be remembered that each contractor has in his own particular bias depending on his background, ownership, prior experience and similar factors. The general trends and solutions thus tend to be the same, but the individual solutions will necessarily vary.

The majority of contractors of whatever background have long recognised that the U.K. market alone is far too small and too vulnerable to fluctuations to provide a satisfactory major basis. They have thus sought work increasingly abroad and the percentage has risen steadily and may well run at 75 per cent. or more of the total volume of work of any one contractor. The contracting organisations have thus grown to meet an even larger international market and this trend will inevitably continue but it is only a partial solution to the problems arising. The size of projects to be handled has grown rapidly and while the number of orders may not have increased, the associated work loads certainly have. This is shown dramatically in the table for typical petrochemical plants, but the same situation arises for many other modern industrial plants, for example breweries, power plants, refineries and even roads. However, not only has the direct demand for engineering and drafting risen, but also the demands for personnel in other fields to cope with the greatly increased complexity of these modern plants.

To-day, it is difficult to imagine any major project being built without the assistance of computers and their associated staffs, not only for aspects of process or mechanical design, but also for the control and recording of costs of the thousands of sub-orders involved, for planning and resource allocation of the engineering work as well as purchasing, construction and start-up, and not least for the contractor's own integral accounting and personnel procedures. Equipment is frequently bought on the world market and items have to be inspected and expedited in many countries at the same time, requiring a major purchasing organisation. Similarly, in construction the size and scope of many of the projects is beyond the capabilities of most available subcontractors so the contractor himself may now be a major employer directly, with his own construction equipment, labour

relations experts, supervisory staffs and foremen, and all the other vital groups needed to run a major construction operation in the field. This may involve housing, hiring, training and controlling a force of two to three thousand men at a time on one site almost as a matter of routine. The result of these factors is that an effective contracting organisation to-day can hardly consist of fewer than 500 to 600 permanent head office staff.

An organisation of this size variously national if the individual can handle approximately four dual companies and the groups

cannot provide the service required by the client unless the contractor is involved at the earliest planning stage in advance for the new technology required; others are less far seeing.

Fortunately for the contractor, some fields are obvious such as the rapidly rising demand for natural gas. In the longer term, as supplies diminish as for example in the U.S., the trend for oil companies to become "energy" companies is clear. As natural hydrocarbons become scarcer their use for basic fuel will inevitably be restricted if only to provide a source for chemicals. The immense coal reserves are an obvious source of energy and already a large amount of effort is being expended on exploring the various routes to converting it to "synthetic" natural gas or to liquid hydrocarbons as was pioneered many years ago. The scale required to-day is vastly greater, however, and is likely to tax the resources of the contracting industry in the last two decades of this century.

Other natural fields for the contractors to turn to include the food industry, brewing, distilling, steel making, mineral processing, pollution control and the various contractors are each vigorously pursuing these areas according to their respective backgrounds and experience, and also assessment of the market size and the obtainable share.

What is clear is that in the years ahead there will be fewer but larger contractors, not perhaps by purchase (as the contractor's sole large asset is his staff which leaves every afternoon) so much as by closure as has already occurred. The contractors that remain will need, however, to be backed by substantial financial assets perhaps through membership of a large group, for only in this way can the organisation be maintained without violent fluctuations in periods of major trade cycles internationally and also to carry the risks inevitably associated with major projects. In the long term this can only be achieved by a greater readiness of all clients to permit the contractor to earn larger profits for good performance. The alternative is to destroy the one industry capable of providing the skills of research, development, engineering, procurement, construction, project management and financing as a single integrated service to all corners.

TYPICAL PETROCHEMICAL PLANTS (RELATIVE INDICES)

Year	Plant capacity	Manhours of drafting	Total head office hours (including support staff)
1950	1.0	1.0	1.0
1960	3.3	1.25	1.3
1965	10.0	1.75	2.0
1970	15.0	2.5	3.5

major projects per year which leaves perilously little room for misjudgment in taking orders or scheduling projects if a balanced yearly workload is to be achieved.

Leading country

While in theory a contractor could simply enlarge one major office as in the U.S. where more than 3,000 men may be in the head office, in Europe a very different situation exists. The total number of qualified draftsmen in London appears to be in the range of 4,000 to 5,000, imposing an immediate limit on any short-term expansion to the American scale. Secondly, financial or political restrictions, and frequently plain nationalism dictate that work should be done in a foreign location, and most of the major foreign aid organisations limit work provisions in a substantial degree to the lending country. Thirdly, language and frequently complicated local design codes or legal requirements dictate that work shall be done outside the U.K.

As a result, most of the more far-seeing contractors already have offices abroad while others belatedly climb aboard the bandwagon. These foreign offices vary from large fully integrated organisations through partial service, such as drafting and procurement groups down to loose associations with locally

are to succeed and there are some notable variations in success on this score.

Diversification abroad and establishment of large organisations to handle large projects are all very well but what about foreign competition and satisfying the enormous capacity established?

Successful foreign competitors have appeared in the major countries of Europe and are now generally capable of handling any routine refining or frequently petrochemical projects of reasonable size. They are, however, still often at a disadvantage with regard to certain special technologies including hydrocracking and nuclear power plants and also in the necessary experience of handling very large projects which is dearly bought.

The danger of specialisation in any one process field is only too evident from the current sentiment on investments in the petrochemical industry. Nevertheless, there is equally a danger of being over-pessimistic about the prospects of an established industry and to plunge blindly into a diversification programme. Here the contractor is dependent on the operating companies' market researchers as the end-products and demand forecasts are in his client's hands and often closely guarded secrets. Some clients appreciate that the contractor

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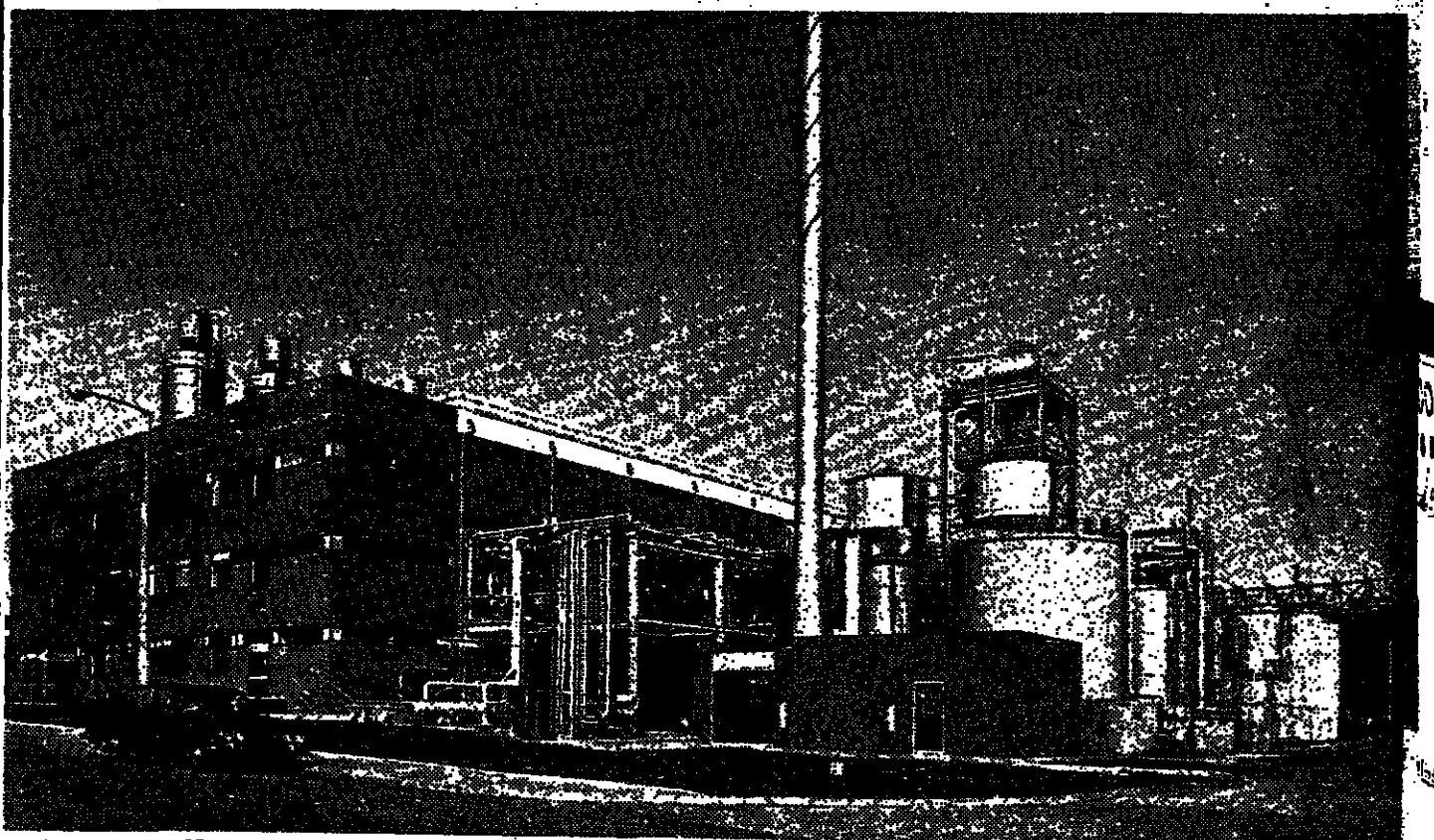
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A polyester fibre plant recently completed by Sim-Chem Ltd., Stockport, for ICI Fibres Ltd. at Killoon, Northern Ireland.

Export performance causes concern

By MICHAEL CASSELL

With no prospect of a growth home market spell considerable in U.K. demand for process chances for those who are prepared to make the effort. In 1970, exports by process plant new significance and manufacturers are having to inject £180m. of which 60 per cent was added determination into their actual hardware. This year the selling efforts overseas.

The exporting successes of a number of British companies illustrate what can be done in the way of capturing valuable overseas business, given sufficient technical expertise as well as design and marketing ability. The examples of the few, however, remain to be followed by the majority.

The opportunities abroad certainly exist. The very size of the process industries in overseas countries and their rate of growth compared with those of the U.K. manufacturers' present

United States and an even better 11 per cent in Common Market countries. Petroleum consumption grew in the U.K. by 9 per cent but in the rest of Western Europe it rose by 14 per cent on average.

Gross investment

A look at recent investment patterns in various parts of the world underlines the picture. In the U.K., gross investment in the chemical industry rose by only 3 per cent a year in the last decade while in the EEC countries it increased at no less than 10 per cent per annum.

The picture is also the same in the oil refining industry. Over most of the 1960s, investment in Western Europe was nearly four times higher than in the

U.K. although towards the end of this period the home situation improved considerably.

But, of course, despite the obvious opportunities abroad, the strength of competition from overseas manufacturers and the inherent difficulties of breaking into new markets are sizeable indeed. A major setback, pointed out by this year's report from the Little Noddy process plant working party, appears to have been the U.K.'s relative loss of competitiveness in terms of export finance.

Historically, the equipment manufacturers have sold their product partly to their ultimate clients, the process operators, and partly to the contractors whose job it is to erect the plant. On the domestic market,

Continued on next page

PROCESS PLANT VII

Worry over economics of pollution control

DAVID GRAYSTON

tion all over the world have reached levels which have seemed incredible. The greatest problem at the moment is concerned with the economics of pollution control. It is technically possible to eliminate most forms of pollution resulting from industrial processes, but the cost of doing so bears no linear relation to the benefits gained. In other words it may be necessary for a company to double its spending on control to effect a reduction of 1 per cent in pollutant output.

Cheaper techniques

A breaking point will obviously be reached in such circumstances, when the cost of safeguards becomes more than the product will bear. Some forms of industry have reached this point already, and are anxiously awaiting the discovery of new and cheaper techniques. Others are casting apprehensive glances at profit margins, and few would be rash enough to say that they are not worried. The trouble, as the first report of the Royal Commission on Environmental Pollution points out, is that the economics of pollution control are not understood beyond a basic supply and demand level. The report says that the economic information needed to formulate decisions on environmental preservation is seriously deficient, in sharp contrast to the amount of data available on the scientific and technical aspects of the problem. It continues: "Scientific and technical information is invaluable, and in many cases may be adequate for reaching satisfactory decisions, but much of it could be wasted if it were not supported by some economic indication of priorities and of the best means of dealing with specific kinds of pollution."

Toxic effluents

angers of accusation have freely waved in the direction of the major processing industries, usually with equal vigour and ignorance. The Mersey and the Tyne are choked with toxic industrial effluents but it is the Thames which has made the area uninhabitable to the north. The fumes from 16m. motor vehicle exhausts are currently doing considerable damage to the atmosphere of no good, and domestic fires are also doing a bit to keep the skies over the city murky. 80 per cent of smoke pollution comes from household chimneys. The Government has said that responsibility for reducing a tidal of pollution rests with individual citizens. The best assurance for the environment is a commitment on behalf of the public to prevent the pollution of air, water and land. It is plain that the process industries are not by any means the only culprits, or indeed, the major ones.

Nevertheless, industry is any-thing but complacent about its achievements so far. The greatest problem at the moment is concerned with the economics of pollution control. It is technically possible to eliminate most forms of pollution resulting from industrial processes, but the cost of doing so bears no linear relation to the benefits gained. In other words it may be necessary for a company to double its spending on control to effect a reduction of 1 per cent in pollutant output.

Last year BSC spent \$8m. on the reduction of its contribution to the pollution of waterways. The amounts of water used by the industry are phenomenal: 200 tons of water are required to produce one ton of steel at an integrated plant. Much of this is recirculated, but the average intake figure is still a hefty 37 tons of water per steel ton. The effluents from iron and steel works are of many differing types and amounts of toxicity, ranging from slightly contaminated cooling waters to highly harmful process wastes such as acid pickling liquors and coke oven condensates and residues. A large-scale research programme which is still under way, has led to the development of new pickling and recovery processes. These, when fully implemented, will lead to the virtual elimination of the acidic effluent problem.

Worsening state

The steadily worsening state of the environment in this country has obviously led to changes in the plans and investment patterns of the steel industry, with more time and money being geared to the cutting down of pollution both by treatment and by new methods of production. This shift in emphasis is visible in almost all areas of the process plant scene. In the chemical industry companies are spending between 24 and 15 per cent of their total investment in plant in the hope of cutting pollution. The wide difference in figures can be explained by differences in the location of plant for, as one spokesman recently put it, the Mersey estuary does not present the same problems as the middle of the Thames Valley. To concerns such as ICI, pollu-

Heaviest spender

The electricity industry cannot be left out of the reckoning. It has been the heaviest single spender on air pollution control, with a bill of £120m. over the last decade. Most of this has been spent on the regulation of coal-burning plants. Extensive marine and freshwater researches have been carried out in conjunction with Government agencies around many of the Board's generating stations, and a project is now in hand to consider the application of the warm water from cooling towers to the establishment of fish farms. The 1957 Electricity Act introduced a statutory obligation for the Board to take account of environmental protection, but spokesmen stress that the industry was heavily involved in this area before the Bill, and that they regard the problem as a continuing one which must be taken into account at all stages, from the design of a power station, through its construction and siting, and down to spot checks on wastes discharged.

As with the gas industry, whose changeover to natural gas will be 95 per cent complete by 1976, the electricity area is in a state of flux at the moment with the gradual conversion to atomic power. This will present new problems, and the disposal of radioactive waste is under active international consideration at the moment.

Tolerance levels for all forms of pollution are set by the Government, but the measures taken seem to be biting harder in some sectors than in others. Nothing on the statute books to date seems to have been able to prevent the adornment of the South Coast by large amounts of crude oil, and it is certain that legislation on car exhaust fumes will be brought in.

When "Nader's Raiders" become a force to be reckoned with over here they will surely take a long cool look at Britain's process plant industry. It will stand the scrutiny well. Things could, and will, become better, but we are still one of the cleanest industrial nations in the World.

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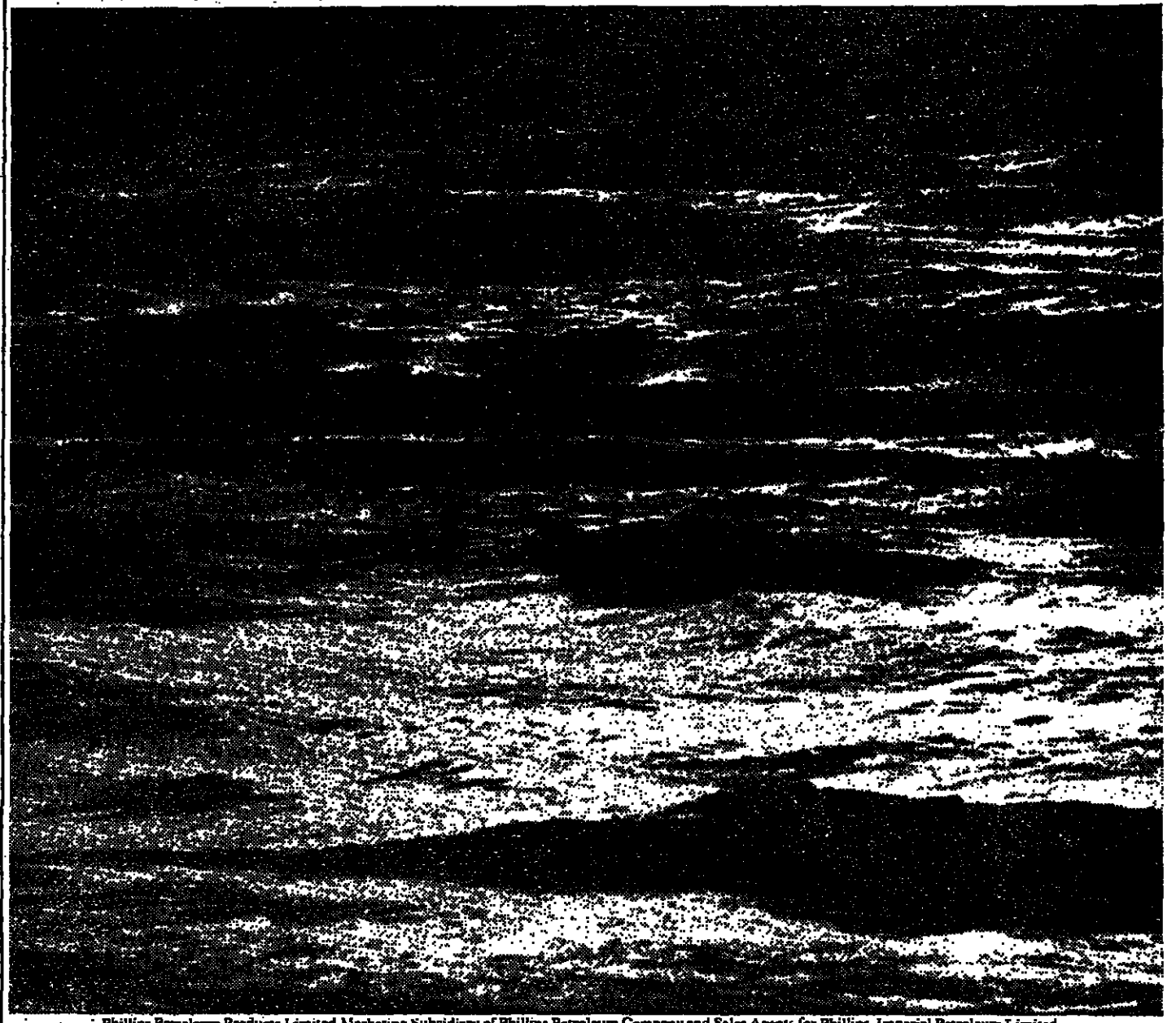
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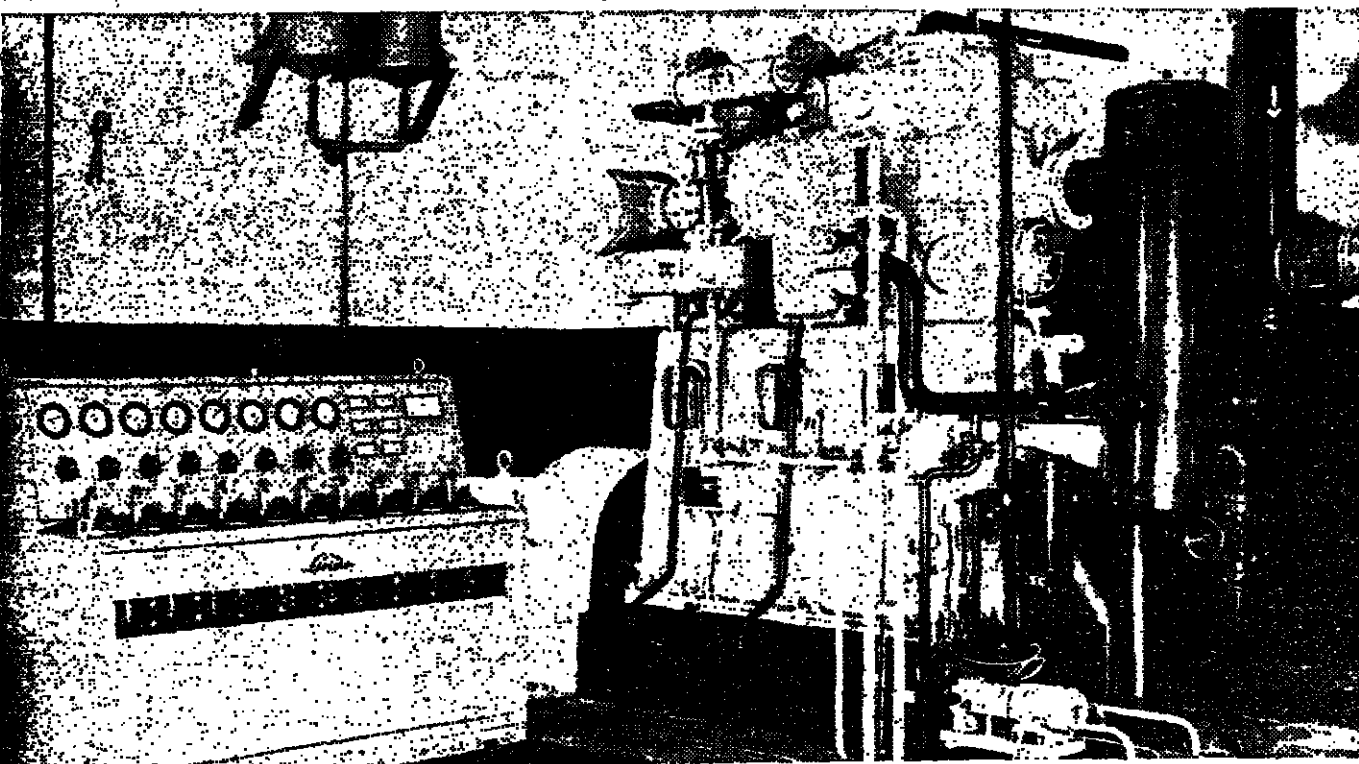
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Exports concern—(Cont'd)

continued from previous page
his situation gives rise to few problems but when it comes to foreign business, manufacturers have largely been content to let the U.K.-based contractors win the orders. The incidence of direct selling to foreign process operators has therefore been comparatively low.

The opportunities for selling in this last sector are quite considerable and some efforts have been made to interest foreign contractors in U.K. plant. In 1969, the Council of British Manufacturers of Petroleum Equipment sent a team to the U.S. to estimate what potential business was available and to inform contractors over there about British hardware. This exercise, however, remains the exception rather than the rule and similar activity from other sectors of the industry could well help the process plant export drive.

One of the greatest and most natural challenges before the U.K. plant makers is the prospect of entry into the EEC, with its enormous flow of internal trade. In the opinion of the Little Noddy working party, membership of the Common Market by Britain and the gradual elimination of tariff

barriers against U.K. exports to the Community would result in a "significant improvement" in the competitive position of British manufacturers in these markets.

Business prospects for manufacturers who find themselves in a position to compete in technical terms and on their delivery performance would be very substantial and they should be able to displace not only the products of some present exporters to EEC countries but also, and probably more important, those of less competitive suppliers within the Community itself.

Tariff barriers

But, as the working party warned, other U.K. equipment makers would at the same time find themselves increasingly bereft of the protection afforded by the present tariff barriers and faced with sharply increased competition from European manufacturers in their own home markets. There is certainly a trend towards Continental companies becoming more active in this country and this process looks more likely to grow in terms of con-

tracting work and direct selling. At the same time, however, U.K. contractors are themselves gradually growing to appreciate the importance of closer links with their Continental counterparts. Britain's importance as a world base for plant contractors is well established, primarily because of the number of oil companies with headquarters in London and also because of the ability of the City's financial network to generate capital for major projects.

It is from London then that they cast their eyes on Europe, and several U.K.-owned operations are among those who have already bought themselves stakes in foreign companies. Everyone certainly seems convinced that to obtain a slice of the potential business, there must be a system of local contracting affiliates, and failure to establish this may well mean failure abroad.

But even given valuable links with Europe, the future for British process plant equipment is far from certain. On a purely technical basis, few U.K. manufacturers spend sufficient resources on design and fabrication research to put them on a truly competitive basis with the

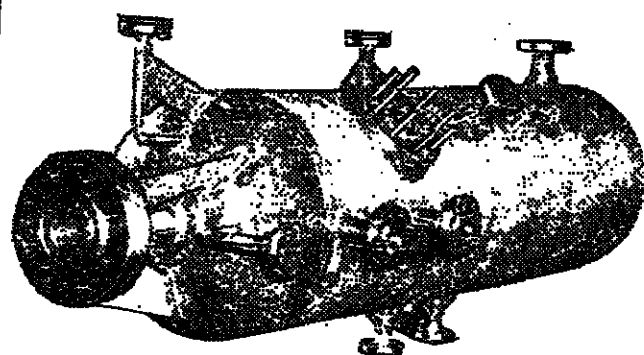
Americans and West Germans. Although some rely on licences from overseas equipment makers to stay in the technological race, U.K. manufacturers in general tend to be regarded as the producers of the well-established, stock equipment while specialist plant production is more often than not left to foreign competitors.

It is also difficult to find areas where U.K. process-plant makers are competitive on a cost basis. Hampered by supply problems, bad business and uncertain industrial relations, it is hardly surprising that the competitive edge has disappeared but there is some hope, however, that the recently announced incentives for capital goods investment might have a marked effect on the level of home demand and so provide a better base for overseas activity.

Rationalisation and diversification are currently being pursued by many manufacturers in an attempt to secure a sound future. The potential overseas exists and if competitive conditions can be improved then U.K. manufacturers and contractors should between them preserve and improve their standing as a world force in process plant.

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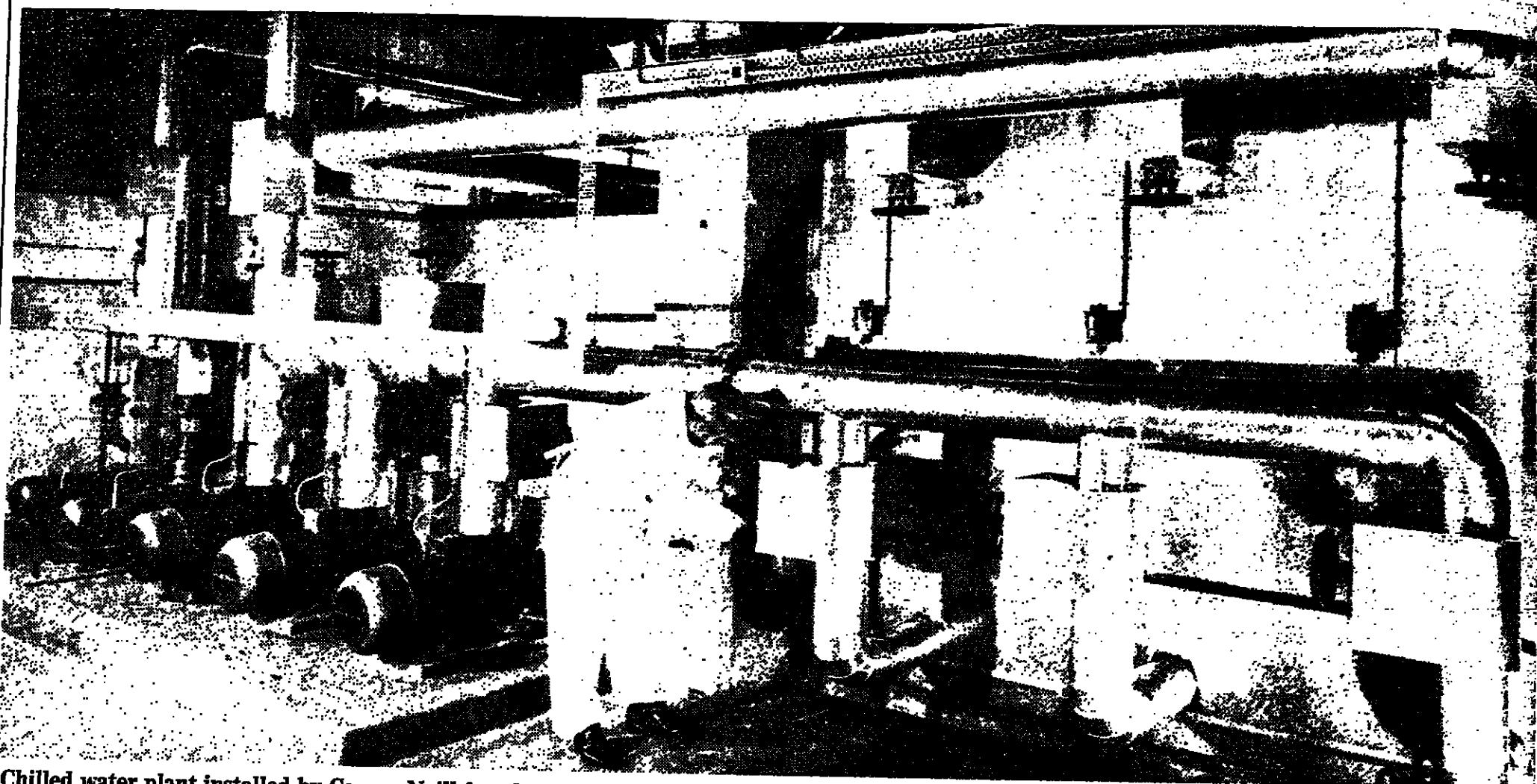
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PROCESS PLANT VIII



Chilled water plant installed by Capper-Neill for chocolate cooling at Nestles factory at Hayes.

Growing influence in food

By Dr. E. H. T. HOBLYN, Advisory Director, Process Plant Association

The processing and preservation of food has always been vitally important to the nation. The food chemist has to establish the desirable working conditions of temperature and time of heating and it is then the process engineer to decide how these conditions can be achieved.

Heating medium

The application of fundamental chemical engineering thinking has helped to solve many of the food industry's problems when dealing, for example, with heat sensitive products. Such materials require that operating temperatures should be as low as possible or the time of contact with the heating medium should be short. These conditions have been achieved by working under vacuum and using climbing film and wiped film evaporators and one of relatively recent design which embodies highly turbulent liquid/vapour flow. These principles are applied to the concentration of milk, citrus fruit juices, tomato juice and so on; the thin film short contact time principle has also been applied to the continuous production of candy when in the special reference to factors designed to preserve the flavour and appearance of the food being processed and to ensure hygienic operating conditions.

Heating is probably the most important single operation carried out in food processing. It is used in pasteurising, cooking and in concentrating products to save weight and space in storage and transport. These various heating operations must not

spoil the flavour or texture of the food but at the same time transfer problems associated with heating the can and its contents. Methods in use include the batch retort, the continuous rotary cooker and cooler in which cans are rotated to agitate the contents and improve the heat transfer rate, and the hydrostatic continuous pressure cooker in which cans are subjected to more gradual heating and initial cooling than in a normal pressure cooker. Apart from its use on canned foods, this type of plant has also been used successfully for sterilising of milk and for the production of milk-based chocolate drinks.

Heat treatment provides one method of preserving foodstuffs. Another is cold treatment and a third drying. Cold treatment can be carried out by conduction as in various designs of plate freezer, by convection as in blast freezers including the fluid bed type, and by evaporation in which the product is sprayed with liquid nitrogen; this provides very rapid freezing and preserves the texture and quality of sensitive products such as strawberries.

Various dryers

Other dryers in use in the food industry include ring dryers, drum dryers for flake products, conveyor dryers for vegetables, and vacuum band dryers for products such as chocolate crumb and malt extract. Accelerated freeze drying is valuable for costly materials

and results in a high quality product which can be easily reconstituted.

Mention should also be made of mixing and filtration. Considerable study of the physical properties of materials has provided a more scientific basis for mixer design than hitherto. Indeed, it was fundamental work on these lines which led to the development of the Chorleywood mechanical dough development process and the necessary high speed mixers giving a defined work output.

Filtration is widely used across the spectrum of process industries. Membrane processes such as reverse osmosis, ultrafiltration and electrodialysis are being actively investigated from a food industry angle.

Finally the development in scale and sophistication of many food plants will be such that the engineering of complete installations will often call for the employment of process engineering contractors who have grown

Taken place

These are just some of the ways in which process plants use in the food industry. This influence of the process engineer will increase; less will firms regard themselves exclusively as, for example, bakery or brewery or dairy engineers. Valuable cross-fertilisation has taken place and will continue to do so. Process manufacturers will operate and think every bit as much as the fundamental operation performed by the plant as the product to be treated.

Impact on non-ferrous metal production

By P. M. J. GRAY, Power Gas Ltd.

Despite short term fluctuations the external factors influencing the food industry include ring dryers, drum dryers for flake products, conveyor dryers for vegetables, and vacuum band dryers for products such as chocolate crumb and malt extract. Accelerated freeze drying is valuable for costly materials

Britain is, and always has been, an important centre for research and development of process metallurgical technology. The emergence of completely new process routes on an industrial scale is, however, a rare event, but improvement of existing processes and equipment arising from a deeper understanding of the fundamentals of process mechanisms is continuous. The unceasing pressure of rising capital and operating costs in the operating industry applies

pressure, through the process contractors, on the equipment suppliers to design and build larger sized units of greater reliability. Progress has been most marked in recent years in the building of rock moving, crushing, grinding and concentrating equipment which has, in particular, made it possible to exploit large copper ore bodies with well under the average copper content. The impact of scientific, technical and engineering advances on the metallurgical industry is much less of spectacular forward leaps than of steadily holding off the continuous pressure of inflation. The British based process industry is well equipped and backed with research to stay in the forefront of know-how suppliers.

Hydrometallurgical processes, developed for low-grade ore processing, provide more convenient ways of controlling waste disposal, so long as there are not quantities of metal and acid bearing liquors to dump and acid balance in a leaching and electrolysis circuit. The increasing application of solvent extraction and ion-exchange techniques for solution purification and appreciably reducing the water pollution problems associated with many hydro-metallurgical processes in the past. Contracting companies have played a major part in these developments, in collaboration with operating companies, because the processes are readily suited to laboratory scale development. Pyrometallurgical process development by contract is more expensive and greatly influenced by scale factors and commercial viability can only come under increasing pressure. The function of the contractor to reduce environmental re-brokers for process know-how solid waste products. This fact is probably now as important as cost saving among tending to install new plant and

looking for know-how to buy these projects under licence.

The rapidly increasing geographical spread of the metallurgical process industry is a factor requiring new approaches to management and financing. The traditional world trade pattern of mining and ore concentration taking place in the under-developed part of the World, and the smelting of concentrates to refined metal being conducted in the regions of the major metal markets of Europe, North America and Japan is changing. Plant complexes comprising mine, concentrator, smelter and refinery are being increasingly planned and built in the emerging countries under the financial and political control of national enterprises. Such nations have inadequate resources, as yet, of skilled manpower and money to establish

Finance is sought either in the form of equity investment, free of interest, or as minority shareholdings. With potential producers planning production of refined metals well in excess of present national consumption, they are also looking for long term sales contracts and are offering these against repayment of loans.

There is rapidly developing metallurgical process engineering and contracting competence for the non-ferrous industry, which, combined with the traditional financing skills of the City of London and metal trading institutions, is available to provide comprehensive services in both the design and construction of new plants and the development of appropriate financing arrangements.

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SOCIETY TO-DAY

BY JOE ROGALY

The statisticians seek safety in numbers

GOVERNMENT now has more information about the people of this country than it has at any time in the previous Administration. The quantity is increasing, the quality is improving, the result of the campaign against it has been an increase in the volume of restrictions on who may and who may not see the official statistics, especially in their raw form.

Caution

This is partly the result of an increased sense of caution in all departments of government, and most particularly in the Office of Population Censuses and Surveys, and partly the result of an observed reluctance among Ministers to agree to anything that might possibly be construed as an official invasion of privacy.

People are deeply concerned about this. The mechanisms designed to prevent the misuse of the statistics are being put in place, but many people are still convinced that practically anyone in the Government and not a few people outside it can, by merely looking up the files, discover who has had an abortion and who has not.

The most sensitive area is perhaps the census and its concomitant social surveys. These are increasing in scope. The Family Expenditure Survey is now well established, but it has in recent years become vulnerable because officials have succumbed to the temptation to add questions on, even if some of them are only marginally related to family expenditure.

The result has been the design and production of a new continuous Government survey, the General Household Survey, which has just completed its

first year of work with some 15,000 in-depth interviews, each containing a possible maximum of 50 questions about education, housing, health, income, and a good deal else.

The answers are in, but they are being checked, and then they will be analysed, and then processed, and the tables that are published will tell only as much as that process allows. The survey, meanwhile, is continuing (it is permanent) and the amount of information, raw and cooked, in the Government's hands is thus still increasing.

This is only one of several surveys, and one of dozens of methods of collecting information about us. It is small compared with its counterparts in some other countries: in Canada, for example, some 30,000 households a month are visited by interviewers from "Statistics Canada". In America the Current Population Survey covers just under a tenth of all households every month; in West Germany a 1 per cent sample is interviewed every April, supplemented by a 0.1 per cent sample three times a year. British statisticians would like the General Household Survey to be similarly extensive.

Such alarm

It might be said, therefore, that the GHS is at least one survey which is comparatively harmless. Yet it is no more harmless than the census itself. The danger lies in identification of the respondents, and the possibility that this might happen is viewed with such alarm by the officials who manage the survey that they will not show the completed forms to other



April: Young Liberals in Trafalgar Square setting fire to their census forms. Some officials are now questioning whether names and addresses are really essential on all forms.

officials, let alone outside academics.

This is where the absurdity is most noticeable. The best academic (and, for that matter, departmental) work can be done with the products of surveys of this kind only when the completed questionnaires themselves are available. With them, it is possible to look for patterns in the responses that computers, untrained, cannot otherwise reveal. Without the forms, the use of the statistics is confined to the use that can be made of the tables put out by officials, who are thus imposing their own patterns beforehand. What should be independent research becomes official research.

The nervousness engendered by the census is such that what was previously a simple reluctance to release raw data even

with the names obliterated, is now very close to a downright refusal to release any unprocessed figures in any circumstances.

But there are other absurdities. A great deal of information collected laboriously by the social survey and other means is available from the Inland Revenue which, because of its historical preoccupation with confidentiality, is reluctant to part with it. Many statistics could be created out of what is already collected in the ordinary way by local and regional authorities, if a system of cross-linkage could be devised; here again, the preoccupation with privacy is an obstacle.

For example, it would be possible (and indeed has already been proved so on a small scale) to keep a central register of the medical case histories of

everyone in the country. The results of every visit to a doctor or hospital would be fed in, and the central register, cross-filing and cross-checking included, would do the rest. This would clearly be of help to doctors and hence to patients, but the political outcry against it can be imagined.

Advantages

Personally, I must confess to being in two minds about the best solution. There is little doubt that even with the statistics we have, some Government officials are likely to abuse their powers—equally, in the present situation, the amount of abuse of this kind is unlikely to outweigh the considerable advantages of having the planners, with whom we are apparently stuck, know what

they are talking about. This must surely lead to the conclusion that there is really little harm in allowing the Government to go on tabulating facts about the people and that there may be some good in it.

The main force of the opposite argument lies in what the threat may be in the future. A totalitarian government would certainly find its work facilitated if the files on every member of the population were found to be conveniently full at the time of take-over—and even short of such an unlikely development, a tough-minded "democratic" government might use information on, say, coloured immigrants against them.

Safeguards

Any government that hopes to expand its statistical services in this direction should first design a set of safeguards that the public would come to know and accept. There is already a great deal of discussion about a code of conduct for interviewers and tabulators, to be signed and sworn to. Some officials are questioning whether names and addresses are really essential on all forms; surely as many as possible could be completed anonymously. The burning of long-past records, publicly, is another possible way of increasing confidence.

None of these will suffice while the compilers of statistics continue to be so secretive about their methods and their purposes. It is one thing—and, indeed, most proper—to refuse to disclose the name of an informant; it is quite another to apply the Official Secrets Act to the purpose of a questionnaire, or to its results. When government becomes more open, perhaps the public will respond in kind: meanwhile the absurdities will continue to multiply.

Labour News

Shawcross to hear BSA union plans

BY PETER CARTWRIGHT, MIDLANDS CORRESPONDENT

UNION proposals to stave off a worst effect of the crisis in the BSA, the Birmingham motorcycle manufacturers, are being put to-day to Lord Shawcross, a director and chairman of the company, by Sir John Edan, Minister for Industry, in fulfilment of a promise made to union officials at a meeting last Friday. The full extent of BSA's acute financial problems will become clear to-morrow, when the statement, expected to show losses of £10m or more will become available. The firm of the companies intends to keep the group in the company plans to sell other, in addition to its assets in Sealed Motor Construction for around £2.1m, to try to reach a total of £2.1m. The statement of £10m, is being

Coventry toolroom men still adamant

BY PETER CARTWRIGHT, MIDLANDS CORRESPONDENT

SUPPORT among more than 100 toolroom workers here in a fight against engineering employers who want to introduce a new system of piecework, is holding firm. The union, the Coventry Toolroom Association, is adamant that it will not accept a new system of piecework, which would mean a 10 per cent increase in pay for a 10 per cent increase in work. The union is also adamant that it will not accept a new system of piecework, which would mean a 10 per cent increase in pay for a 10 per cent increase in work. The union is also adamant that it will not accept a new system of piecework, which would mean a 10 per cent increase in pay for a 10 per cent increase in work.

Concorde price expected to be set within next three months

BY MICHAEL DONNE, AEROSPACE CORRESPONDENT

IT IS HOPED that the manufacturers of Concorde will set firm specifications on the aircraft to the airlines in the next two to three months. Mr. Frederick Corfield, Aviation Supply Minister, told the Commons yesterday. He said he was in touch with the French Minister of Transport, M. Chamant, about the next Ministerial meeting on the programme, which would probably take place in November, or at least before the end of the year.

Answering questions about the progress of the project, he said the first of the two "pre-production" Concorde was expected to fly (in early December) from the British Aircraft Corporation's works at Filton. Flight trials of the two prototype aircraft had continued to make a satisfactory progress.

Man-made fibres output decline halted

BY JOHN TRAFFORD

FIGURES for the production of man-made fibres in September, just released by the British Man-Made Fibres Association, show that the decline apparent during the summer has been halted. As yet, however, there is no sign of an upturn.

September production was 112,066m. lbs. compared with 112,386m. lbs. last year. The nine month cumulative figure was 1,010m. lbs. an advance of 1.6 per cent. At the six-month stage, the growth had been 2.7 per cent, and for the year's first quarter it was 7.1 per cent. The recent disappointing performance will make it hard for the industry to establish a new record this year for total output much above the record level reached in 1970.

Like the summer months, the total for September disguises the continuing strong swing away from spun yarns and to filament yarns, widely used in knitted fabrics which are still making inroads into the woven cloth market.

All the growth this year has been in filament yarns with output during the first nine

This price is now expected to be in the region of \$28m. (over £11.5m) per aircraft.

Mr. Corfield was also asked if he would now try to persuade British European Airways to place an order for the U.S. Lockheed TriStar airliner, or at least make a declaration of intent.

Mr. Corfield declined, however, saying: "It is not up to me to bring pressure on BEA."

He told MPs that funds were available for the RB-211 engine for the TriStar to go ahead. "By September 14, all the pre-conditions had been met for the continuation of the RB-211 programme for the TriStar. The selling price of the Concorde to Rolls-Royce/Lockheed contract for the engine, and the Government's undertaking to finance the RB-211 programme, accordingly took effect."

Atlantic fares package hopes

By Our Own Correspondent

GENEVA, Oct. 25. REASONABLY good chances of agreement on a North Atlantic fares package can be predicted as airline representatives gather in Lausanne for a renewed attempt to avert the "open rate" situation which otherwise will come into effect on February 1.

A spokesman for the International Air Transport Association noted to-day that every member airline, including Lufthansa, would like to see an agreement.

Senior commercial executives of the airlines will meet for two days, starting to-morrow, to thrash out agreement on overall policy to be worked into a fares package. If this is achieved, formal negotiations can start on Thursday and may last into early next week. It seems clear that the Montreal "package" will be used as a basis for the talks, although the fare offering is likely to be considerably simplified.

Unions in joint move at Boots

THE Association of Scientific, Technical and Managerial Staffs and the staff section of the Union of Shop, Distributive and Allied Workers have decided to pool resources for a joint campaign to recruit from more than 1,000 staff workers at the Boots group.

The area organiser for USDAW, Mr. Mike Hill, said that Boots was the only major company in the Nottingham area where clerical staff were not unionised.

Satellite launch Thursday

BY MICHAEL DONNE, AEROSPACE CORRESPONDENT

THE LAUNCH of Britain's first scientific experiment to measure the incidence of micrometeoroids, the "space dust" range is now expected to take place on Thursday instead of today.

The £2m. satellite is to be placed into a near-Polar orbit by decision that this national Black Arrow launch vehicle programme is to be terminated as part of the equipment for future space realignment of the National Space Technology Programme.

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THE FIRST NATIONAL BANK OF BOSTON

Union's girl employees strike over redundancy

BY OUR OWN CORRESPONDENT

TWO GIRLS belonging to the Electrical and Administrative Workers' Union and employed at the Liverpool office of the Associated Society of Woodworkers, Painters and Builders, went on a national strike to-day, protesting against a redundancy notice served on one of them.

They picketed the ASWPB office and said they would stay on strike until the redundancy notice was withdrawn.

Mr. John Allan, CAWU local organiser, said that at a time when the TUC had launched a nationwide campaign against unemployment, the ASWPB was making its girls redundant throughout the country.

He claimed that seven of his members in the ASWPB regional

Saleroom Paintings fetch £61,385

A STILL-LIFE of flowers by Paul Theodor van Brussel went for £12,500 to Leggett at Phillips' sale of paintings yesterday. The total was £61,385.

Patterson gave £4,000, £2,800 and £1,000 respectively for three river scenes by Hermanus Kuek, a private buyer £2,000 for a Political Discussion by Francis Brunner; and Western Paul of Geneva, first half 18th century. A large measure by Giuseppe Maciaco, first half 18th century, and a large 17th-century Dutch flagon of Leyden type each went for £500 to Piccadilly Gallery.

In Sotheby's book room in the first session of a two-day sale of

snow scenes by Thomas Smythe printed books which realised £1,400 to Johnson; a pair of farmyard scenes by Edgar Hunt for £1,300 to Chapman; and The Three Cavaliers' Trophies by Adolphe Alexandre Lesrel for £1,000 to McConnell Mason.

At Sotheby's a sale of pewter realised £18,200. Mundy gave £670 for a double-handled pewter loving cup, c. 1700, and Jansen £350 for a wine measure of 1635 to double litre capacity by Nicolas Paul of Geneva, first half 18th century. A large measure by Giuseppe Maciaco, first half 18th century, and a large 17th-century Dutch flagon of Leyden type each went for £500 to Piccadilly Gallery.

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COMPANY NEWS + COMMENT

Lankro first half profit downturn

IN the half year to August 31, 1971, pre-tax profits of the Lankro Chemicals Group fell from £413,000 to £332,000.

Even in present market conditions, says the Board, profits for the second half should be no less than those earned in the first half, and it is the prime objective, without relying on general economic improvements, to halt and reverse the recent unfavourable movements in the group's cost-price relationships.

For all the year to February 28, 1971, pre-tax profits were £347,000. The interim dividend is held at 5 per cent. last year's total was 20 per cent.

	1971	1970
Turnover	1,000	1,000
Depreciation	100	100
Investment grants	100	100
Interest charges	100	100
Profit before tax	100	100
Tax	100	100
Net profit	100	100
Interim dividend	100	100

The half-year results were, to an extent, anticipated in the annual report, and directors believe the increase of 11 per cent. in group turnover achieved during a period of flat national economy would, in normal circumstances, be satisfactory.

However, in the face of a second quarter decline in European prices affecting the group's sector of the chemical industry, the growth in available margin was insufficient to match the rate of cost increase experienced over the past 12 months. The group has adequate capacity in all major product areas to take full advantage of such further growth as may result from the recent fiscal measures taken by the Government. It is stressed.

Lankro's new polyester plant in Eccles came into operation successfully, and on schedule, in September. The products deriving from this plant will "significantly expand" the service to the urethane industry.

Burts and Harvey's agricultural chemical plant is now fully operational, and the exceptional revenue expenditure associated with bringing it into operation, but has, together with seasonal factors, led to the company producing a small net loss at the half-year mark. The directors have "every hope" that this company will return to profitability during the second half of this year.

Associated companies have continued to show good growth during the period, and the Indian associate is now operating profitably.

● comment

The 20 per cent. drop in Lankro Chemicals' first half pre-tax profits is the result of price competition not matching the rate of the group's raw material suppliers—particularly in the second quarter where Lankro cut prices in order to hold customers and to penetrate the European market. Complicating this, the group's chief suppliers are ICI and Shell who are also its major competitors. A further aggravation is the general flatness of the detergent, plasticiser and agricultural markets. No immediate improvement is on the cards, but with a turnaround in the U.K. economy expected by 1972, Lankro and investment in Burts and Harvey should be in a position to take advantage of this.

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Rediffusion Television prospects

IN SPITE of the loss of rental income from St. Catherine's House, the directors of Rediffusion Television expect current-year profits to be "not likely to be much below" those for the year to July 23, 1971.

This is subject to the present trading position of Thames Television not being adversely affected during the remainder of the year. As reported on October 20 group pre-tax profit for the past year expanded from £1,023,784 to £2,287,082, reflecting an upsurge in profits of Thames Television. The Ordinary dividend is stepped up from 6½ to 20 per cent. and the Preferred Ordinary from 6½ to 8½ per cent.

Turnover from leasing of properties was £390,000 (£322,000) and pre-tax profit from that source was £204,000 (£228,000). Turnover from the sale of programmes and films was £150,000 (£119,000) and profit £39,000 (£16,000). The share of profit from TT was £1,825,000 (£383,000) and investment and other income amounted to £278,000 (£283,000).

In the 1967-68 report an explanation was given of the arrangements which, to meet the desires of the Independent Television Authority, had been made concerning the control of Thames Television. It is now over 2½ years since the ITA decision was made public, but the arrangements still have not been put into effect. It is pointed out that there now remains less than three years of the six-year contract granted by the ITA to Thames Television. Consequently, control of TT remains in the hands of EMI, while Rediffusion continues to hold 50 per cent. of the shares and to contribute 50 per cent. of the investment.

The scheme for the internal modernisation of the company's premises, St. Catherine's House, which is being financed by the company at an estimated cost of £1.5m., is progressing satisfactorily. The company suffering a considerable loss of rental income during the period of

the scheme, but the arrangements, whereby IPC will take up an underlease of the premises upon completion and, in any event, not later than June 1972, will result in the company obtaining a substantial profit rental from June, 1972 onwards.

The ultimate holding company of Rediffusion TV is British Electric Traction, which is the beneficial owner of 170,000 Ordinary, 2,380,000 Non-Voting "A" Ordinary and 85,000 Non-Voting Participating Preferred Ordinary. Rediffusion Limited, a subsidiary of British Electric Traction, holds 127,845 Ordinary and 1,780,659 Non-Voting "A".

Meeting, Stratton House, Piccadilly, W., November 16 at 10.30 a.m.

Post strike hits Reed Executive

AN interim dividend of 20 per cent. is declared by employment agency Reed Executive, and directors repeat their January prospectus forecast of a 35 per cent. final to make 55 per cent. for 1971.

First half pre-tax profit—fell to £33,181 from £47,488, reflecting the effects of the postal strike which is estimated to have cost the group in excess of £60,000. After tax of £38,200 (£58,146) the net profit was £44,984 against £79,241.

For all of 1970, there was a group pre-tax profit of £318,626. The chairman, Mr. A. E. Reed, has waived the dividend on 1,134,500 shares and his family trust have waived entitlement to 50 per cent. of the dividend due on 928,500 shares.

● comment
The postal strike has had a predictable depressing effect on Reed Executive's first-half results, but there seems to have been no growth anyway even after adding back the exceptional costs involved here. This is because of sizeable starting-up costs resulting from the 21 branch openings in the period. But since new units take some months to get into their stride the second half of 1971 should benefit correspondingly. Thus, even though the temporary market is still dull, July-December profits are expected to be up, with more coming in from other activities like executive placing and, recently, record sales. The shares have not taken much account of this, and are still below the January offer level, but at 52p the prospective p/e of around the 12 mark looks an under-rating given Brook Street's likely p/e five points higher.

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Utd. Real Property valuation

FREEHOLD and leasehold properties of the United Real Property Trust were revalued on April 5, 1971, by the company's professional staff and, based on this, the directors are of the opinion there is a surplus of £16.14m. (the company £8m.) over net book value of £17.77m. (the company £2.59m.) after minorities. This surplus is stated before taking account of taxation, if any, or selling costs which might arise in the event of the assets concerned being realised. Generally, valuations have been

calculated on the basis of current market values. Properties held for future redevelopment have been valued on an investment basis on existing buildings, or, where development is likely to take place in the foreseeable future, on a site value basis.

As reported on October 21, 1971, pre-tax revenue for the year to April 5, 1971, was £237,444 (£255,488) with a dividend of 15 per cent. (same). As forecast, the figures reflect a decline in interest rates earned from loans to local authorities.

At the year-end the chairman—Mr. M. Wohl—was beneficially interested in 6,130,760 Ordinary shares of 25p.

Meeting, Connaught Rooms, W.C., November 24, noon.

Portsmouth Sunderland profit up

FIRST-HALF group profit of Portsmouth Sunderland Newspapers has increased from £252,300 to £283,500. The net figure came out at £174,000, against £141,500, after tax of £109,500 (£111,000). An unchanged interim dividend of 12½p per 25p unit has already been declared. The total for the year to March 31, 1971, was 5p from a pre-tax profit of £663,106.

● comment

After a 28 per cent. pre-tax jump in the first half of 1970-71, Portsmouth and Sunderland's growth rate slowed to 2 per cent. in the second, leaving profits still a long way short of last year's recovery. The group returned £229,000 before tax in 1968-69. However, a pre-tax rise of 12 per cent. in the first half of the current year shows the group to be on its feet once again though how far this recovery trend will continue is not yet clear. Advertising revenue is currently buoyant but for classified advertising, but margins are still under heavy pressure (particularly from wages). Moreover, there is a further newspaper price rise falling in the current half. The effects of the postal strike, clarified an historic p/e of 11.7 at 74p seems high enough.

Increasing demand at BMK

THE KILMARNOCK carpet factory of Blackwood Morton and Sons (Holdings) was busy at present, Mr. K. M. Hamilton, chairman, told shareholders at the annual meeting yesterday.

In the near future the warehouse for finished goods would have to be extended and the necessary land adjacent to the building had been acquired, he said. More wide Axminster looms and tufting plant would be needed to meet the anticipated increase in the demand for group products.

Mr. Hamilton reported some success in both home and export trades, and the new tufting machinery imported from the U.S. A recent visit to Canada confirmed that business there was improving but with the dollar crisis "one could not be too optimistic" as the Canadian factory did a big business with the U.S. If Britain joined the EEC, that factory would benefit because, presumably, British makers would lose Imperial preference.

Other hand, the Board would have to think how they were to take advantage of the greatly enlarged European market. Normally they did not have excess capacity and tried to keep in line with demand, and it would require substantial investment in plant and buildings somewhere. The cost of transport and the time taken to reach the big markets were important considerations in determining where new plant should be laid down, whether in Scotland, in the south, or on the Continent.

Enalon's second half

Reflecting a substantial improvement in the second half, in line with expectations, group pre-tax profit of Enalon Plastics amounted to £80,834 for the year to June 30, 1971, compared with £109,404 for 1969-70. At the half-year, it was down from £57,039 to £30,077.

A final dividend of 15 per cent., as forecast, maintains the total at 20 per cent.

Current year turnover is up on the same period last year and profits for the first three months are running at a higher level than for the comparable period. The total order book is in excess of that for last year, the directors report.

Confidence at Orbit

The directors of Orbit Holdings "are confident that the trend for the medium and long-term should be upward," says Mr. Carl Ross. The portfolio of quoted investments has been reorganised by Keyser Ullmann, bankers, appointed last November as investment managers.

Net asset value of Orbit's 25p shares increased during the 15 months to June 30, 1971, from 89p to 74p. By September 30, it had risen further to 75p, Mr. Ross reports.

As announced, a 15 per cent. dividend compares with 10½ per cent. for the previous 12 months, equal to an increase of 1½ per cent. on an annual basis. Profit after tax rose from £22,466 to £22,962.

Meeting, Great Eastern Hotel, E.C., November 17, at 11.45 a.m.



Mr. Irvin Haylock (left), chairman of Armstrong Equipment, with Mr. Harry Hooper, chief executive and group managing director, at yesterday's annual meeting in London. Mr. Haylock has already forecast that the group should show a continuation of progress achieved in the last five years.

Stothert & Pitt's big provisions

DIVIDENDS ANNOUNCED

Current payment	Date of payment	Corresponding dividend	Total last year
15	Jan. 22	10 (d)	144
15	Dec. 10	22	229
15	Dec. 8	20	15
2	Feb. 17	5	20
2	Dec. 13	12	12
7	Dec. 13	6	14
3	Dec. 6	30	15
44	Dec. 7	44	10

● Equivalent after allowing for scrip issue. † Amount per share. (a) Tax free. (b) On capital increased by rights and/or acquisition issues. (c) For nine months. (d) Total 15 per cent. anticipated.

Brooke Tool poised for recovery

ON SALES of £1,237,433 group pre-tax profit of Brooke Tool Engineering (Holdings) amounted to £24,456 for the 26 weeks to March 31, 1971. The figures exclude losses of T. S. Harrison and Sons, now sold to the George Cohen 600 Group, and of Brooke Tool Automation, which is being run down prior to closure following the compulsory purchase order served on the Perry Barr premises.

For the corresponding period a year earlier and for the year to September 25, 1970 sales were £1,344,669 and £1,722,103 and profit £12,598 and £13,054 respectively including both Harrison and BTA. There is no liability for corporation tax in any of the past three periods as a result of previous tax losses being brought forward.

The net purchase price for Harrison, after payments under warranties, was £680,000. BTA, which is due to close next January, is expected to incur trading and terminal losses in the region of £80,000 after bringing into account compensation receivable for the compulsory purchase.

The trade investment in Cardinal Steels, currently valued at £50,010, is being reviewed and it may be necessary to provide about £20,000 for diminution in value when the audited accounts for the full year are available, the directors state.

Results for the full year (excluding the substantial losses in Harrison, BTA and Cardinal) are expected to show approximately break-even position. Despite the disappointing year, the group is in a position to take full advantage of the reflation of the engineering industry when it begins. Plans are being prepared for the purchase of a new plant and buildings over the next two to three years which will lead to a significant improvement in efficiency.

The directors recommend that

continued restraint be exercised and have decided that no interim dividend will be paid. The last payment was 2½ per cent. for 1967-68.

British Investment Trust

CURRENT YEAR earnings of British Investment Trust are expected to allow payment of a total dividend of 15 per cent. against 14½ per cent. for the year to March 31, 1971, the directors state. The interim is stepped up from 6½ to 7 per cent., as forecast, to reduce disparity.

At September 30, 1971, total gross revenue for the year to March 31, 1972, was estimated at £3,365,000, against £3,411,000 for the previous year. Consolidated earnings are currently estimated at 14.28 per cent. (estimate at September 30, 1970, 13.73 per cent.) which compares with actual earnings of 15.13 per cent. for 1970-71.

The valuation of investments at September 30, amounted to £104.41m. (£91.1m. at March 31, 1971) including the full dollar premium amounting to £7,52m. (£5.6m.). Properties were valued at £5.39m. against £5.38m. making a total of £109.8m. (£97.0m.).

Net asset value of each Ordinary share, including the full dollar premium, was 170½p (146p)—on the sale of premium dollar investments, 25 per cent. of the dollar premium is surrendered—if all dollar investments were sold the net asset value of each share would be reduced by 3½p (2½p).

The directors are considering a new issue of Convertible Debenture stock in the near future and full particulars will shortly be announced. The number of Ordinary shares required to satisfy conversion rights attached will be in excess of the balance of the unissued capital. Accordingly, an extraordinary meeting will be held on November 10 to consider an increase in the authorised capital from £17.1m. to £19.6m.

BATH-based engineering group, Stothert and Pitt, reports an improvement from £52,712 to £213,028 in profits, before tax and exceptional items, for the six weeks to July 3, 1971, compared with the previous year.

Last April, announcing a first half (26 weeks) loss of £47,152 (profit £82,741) the directors said there was some indication of a recovery in home demand, and they hoped for some improvement in results for the remainder of the year.

Preference dividends have been paid but there is again no Ordinary dividend—there was a 10 per cent. total for 1968-69.

The directors have made a review of group assets and have found it necessary to make additional charges in respect of obsolescent stocks and work in progress and to write off development expenditure, which together total £250,070 (£30,451). They have also provided £25,000 for exceptional losses on exchange.

These amounts, less tax credits of £174,688 (£30,600), are being treated as exceptional items and have not been taken into account in arriving at the profits given. A transfer of £237,376 (£15,739) has been made from revenue reserves to profit and loss to cover the difference between the net total of the exceptional items, £200,404 and the year's profit of £213,028.

Directors have also decided to write down from capital reserves the book values of plant, machinery and equipment by £238,696. Fixtures, fittings, loose tools, patterns and drawings by £145,000, and investments in associated companies by £117,143. A reduction of £94,357 in depreciation charged against trading profits in 1970-71 is attributable to the adjustment of book values on plant, machinery and equipment. As a result of tax losses available to the parent, no corporation tax is payable by the group for the period.

The group's sales totalled £7,590,000 compared with £7,040,000 in 1969-70 (exclusive of the turnover of subsidiaries sold), an increase of 8 per cent. in value. The meeting will be held at Bath, at noon on November 29.

52 wks. to July 3, 1971
Profit 213,028
Depreciation 174,688
Bank interest 17,524
Profit before tax 213,028
Profit after tax 213,028
Net profit 213,028
Before exceptional items. † Loss.

● comment
At first sight Stothert and Pitt seems to have managed a sizeable turnaround in the second half of 1970-71 but in fact the major part of the pre-tax improvement

is the result of reduced depreciation stemming from the off-sets on plant, machinery and equipment. Other factors in loss-elimination on two own subsidiaries. Lower overheads because of the 10 per cent. redundancies and an up pattern of contract completion. The write-offs have produced a more realistic net asset value of probably around £4m. at £5m. last year. On the front the position looks encouraging with the ably encouraging with the construction and pump markets ing up through U.K. demand. In future the group intend develop specialist into giving the reconstructed Bona vote of confidence with a taxed p/e of only about 10 at June.

Announcing this in an interim report the directors say they have a "moderate" view of the future of specific results for a first-half would not necessarily reflect the likely outcome of the year.

For the year to January 31, 1972, group pre-tax profit was £254 (£79,885) and the dividend 30 per cent. (30 per cent.). Activities include building and engineering contracting.

TOWN CENTRE PROPERTIES

Sempah (Holdings) announced that acceptances in respect of the offer for the shares in Town Centre Properties not already beneficially owned have been received in respect of 908,213 shares from 384 holders, representing 54.60 per cent. of the shares subject of the offer and 60.18 per cent. of the holders of the shares. Of the shares the subject of acceptances, 320,624 were in respect of the exchange offer and 587,589 in respect of the cash alternative.

Sempah has declared its offer unconditional. The cash alternative closed October 22, but the share exchange offer will remain open. Sempah and its advisers are now negotiating of 1970-71 but in fact the major part of the pre-tax improvement

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NEWS

West Wits to offer shares at 466p

KENNETH MARSTON

are now announced of the West Wits to offer shares at 466p. The offer is for 100 million shares at 466p each, raising £46.6m. The shares will be offered to the public by the Anglo-Siam Corporation, which is the agent for the offer. The offer is subject to the approval of the shareholders of West Wits, which is a subsidiary of Anglo-Siam. The offer is being made at a time when the price of West Wits shares is 466p. The offer is being made at a time when the price of West Wits shares is 466p.

NBH-CRA scheme

THE SCHEME for merging the lead-zinc interests of New Broken Hill and Consolidated Resources Australia is now being approved by the shareholders of the two companies. The scheme is being approved by the shareholders of the two companies. The scheme is being approved by the shareholders of the two companies.

As then share prices have moved and at last night's price the value of the shares has dropped to 466p. The offer is being made at a time when the price of West Wits shares is 466p. The offer is being made at a time when the price of West Wits shares is 466p.

OLDSWORTHY'S PYALTY DEAL. According to the Western Australian State Minister for Mines and Metallurgy, Mr. Herbert Graham, the Oldsworthy iron ore plant has agreed in principle that it will pay a higher royalty rate on the iron ore deposits in the area. The deal is being approved by the government.

As already announced, holders of New Broken Hill will exchange their shares for those of NBHC Holdings on a one-for-three basis. The exchange is being approved by the shareholders of the two companies.

CHAPLIN. Net profit of Chaplin Holdings for the six months to June 30, 1970, was £28,332, against £26,052, after tax of £8,870 (£8,497). The company is a holding and investment company with controlling interests in Emu Wine Holdings and P. J. Jewes, a property owner in the Mounting industry.

BIDS AND DEALS

£17m. Delta Metal bid for MEM

THE GROUND was prepared for another bid battle last night when Delta Metal Company announced its bid for MEM.

An approach by Delta in an attempt to agree friendly terms did not succeed. The MEM Board apparently preferring at this stage to go its own way. However, Delta has already built up a 9.8 per cent stake in MEM from which to launch its bid.

The bid fits in with Delta's declared policy of getting more added value into its products and getting nearer the ultimate consumer. At present, it is mainly concerned with making and selling a wide variety of non-ferrous metals. MEM is one of its customers, making electrical switch and fuse gear, motor control gear and electrical wiring accessories.

Delta's advisers, N. M. Rothchild, will make the offer as follows: For every 25 MEM Ordinary, 14 Delta Ordinary plus £12 30p of 7.5 per cent convertible loan stock, 1989, convertible into 90 Delta Ordinary for ten years from 1974.

With the Delta Ordinary at 99p ex-dividend (and down 1p) last night, the terms would give MEM Ordinary at 104p compared with yesterday's closing price of 94p ex-dividend, up 3p yesterday. See Lex

SGT sale to Combined English. Contracts have been exchanged for the sale by Sterling Guarantee Trust of its Salisbury Holdings subsidiary for not less than £1.2m, and a maximum of £1,402,500. Purchaser is Combined English Stores Group which will satisfy the consideration by the issue of new shares. The company is a holding and investment company with controlling interests in Emu Wine Holdings and P. J. Jewes, a property owner in the Mounting industry.

undertaking of the engineering division of Broadfields Garage and Engineering Company, in Enfield. Consideration is £50,000 cash, plus a further £10,000 if pre-tax profits of Broadfields in the first year exceed £20,000. Book value of the assets is in excess of the price paid.

To effect the deal, W. C. Aldridge an existing non-trading Metallux subsidiary, changed its name to Broadfields Engineering Company and subsequently acquired the assets of the Broadfields engineering division. The existing garage activities of Broadfields will continue under present ownership in separate premises.

The business of the acquired assets is contract repetition machining for the leading motor manufacturers. This is very similar to that of Arthur E. Lumt, an existing Metallux subsidiary.

BBA to buy Charles Hirst (Cleckheaton). The directors of BBA Group, of Cleckheaton, manufacturers of friction materials and industrial textiles, who are being advised by Industrial and Commercial Finance Corporation, announce that agreement has been reached in principle for BBA to offer to acquire Charles Hirst (Cleckheaton), a private holding company.

Consideration of about £1.1m, representing the value of the net tangible assets will be satisfied by the issue of BBA Ordinary based on the average of the middle market price during the seven business days prior to the signing of the vending agreement early in November. Hirst owns extensive factory buildings and land adjacent to the BBA main site at Cleckheaton. The land is required to put up a finished goods warehouse and to expand the Cleckheaton operation of BBA. Hirst also owns a substantial investment portfolio.

Darlington Wire Mills, a member of the British Ropes Group, has agreed terms for the acquisition of Charles Hirst (Cleckheaton). The acquisition is being approved by the shareholders of the two companies.

Borg Services acquired by Burmah

Burmah Industrial Products has expanded the operational base of its subsidiary, Atlas McAlpine by the acquisition of the assets and businesses of Borg Service in U.K. and in Germany from W. R. Grace.

These acquisitions, added to Atlas McAlpine's existing overseas connections, make the company the largest chemical cleaning specialists of this type in Europe. It is stated.

Chemical cleaning services to industry, the marine, and the chemical and oil industries are available for operation in any part of the world, but will be primarily based on U.K. and Germany. In the U.K., the Borg operation will be absorbed into Atlas McAlpine but the German company will continue to operate independently under Atlas direction.

117 GROUP STAKE IN LONDON & OVERSEAS PROPERTY

The 117 Group, through its merchant bank subsidiary, Securities Agency, has acquired for an undisclosed cash sum a 20 per cent stake in London and Overseas Property and Investment Company. At the same time, Securities Agency is making available to L and O a loan of up to £1m. by way of a debenture.

L and O, a private concern, is a new holding company for London and Overseas Properties Group within which are London and Overseas (Investments), London and Overseas (Second Investments) and St. James's Street Properties. The investments company recently entered into long-term financing with a consortium of pension funds managed by merchant bankers Kleinwort Benson. The group has a number of large scale office developments in the pipeline, including the Eurocentre, at Southend.

The firm's debenture has virtually no time limit on it and Securities Agency has placed no restrictions on its use. This means that the L and O directors can apply it when and where they wish and can also draw on the loan to make deposit payments on projects where the balance of finance will be provided elsewhere. Mr. Sidney Rosen, a director of Securities Agency, has joined the Board of L and O. Another project in hand by L and O is the formation of an international company.

Homfray expects improvement

CHAIRMAN of carpet manufacturers, Homfray and Co., Mr. D. E. Gillam, holds the view that an improvement in trading conditions can be expected next year.

However, profitability will depend almost entirely on whether costs can be contained within reasonable limits, he says, especially as we have fully supported the recent initiative taken by the Confederation of British Industry to seek to stabilise price levels.

In the event of entry into the EEC the group can hope for benefits from a greatly enlarged market in spite of keen European competition.

As reported on September 24, pre-tax profits for the year to June 26, 1971, improved from £1,661 to £1,841, and the dividend is lifted from 21 per cent to 23 per cent. In the event of a further profit increase in the current year the Board would hope to pass on some benefit to shareholders.

Of the U.K. carpet companies export and mail order sales of Homfray Carpet Co., the largest subsidiary, were seriously affected by the postal strike. The wholesale trade, the other main outlet, has been affected by the general economic climate and especially by the "very difficult" credit conditions experienced by customers. As a result profit before tax fell by approximately 14 per cent. Whitworth Hall Carpets (formerly Nairn Velmar) earned a profit of £240,000. Capital cost of the purchase by Whitworth of a Zimpro printing machine, together with the necessary building work and finishing lines, is substantial, but the Board is confident this move will result in higher profits despite the fact that as is the case with all tufted products, competition will be keen, says Mr. Gillam.

Profits before tax earned by the Australian subsidiaries improved by about 15 per cent, and taking into account the highly competitive conditions there, this is regarded as a good result. The past year was particularly difficult for the furniture trade and consequently pre-tax profits of British Furtek (manufacturers of upholstery and pile fabrics) has fallen by about 12 per cent, but after taking account of many long adverse factors, directors consider this performance "not unreasonable".

During the year group capital expenditure amounted to £1,468,447. Approximately £500,000 1970-71. Demand for houses built by Varney (Holdings) had shown continued improvement, both in southern England and Scotland, since the start of the current year. Mr. H. R. B. Hobbell, the chairman, said yesterday. There had also been a satisfactory start made by the plant hire company, the name of which has been changed from Dell Engineering to Dell Plant Hire. Mr. Hobbell told shareholders at the annual meeting that the situation with regard to industrial developments was slowly being reversed following a poor year in 1970-71.

RECENT ISSUES

EQUITIES									
Stock	1971	High	Low	Stock	1971	High	Low	Stock	1971
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330

FIXED INTEREST STOCKS

Stock	1971	High	Low	Stock	1971	High	Low	Stock	1971
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330

"RIGHTS" OFFERS

Stock	1971	High	Low	Stock	1971	High	Low	Stock	1971
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330
Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330	312	312	Anglo-Am. Ind. Co. (21)	330

STEPHENSON. The Austin-Hall Group, which now owns 82.8 per cent of the total voting rights in Stephenson Developments (Holdings) has notified all outstanding shareholders, that it intends to close the revised offers on November 12, 1971.

BROWN BROS. PREF. The quotation for Brown Bros. 71 per cent preference has been cancelled at the request of the company, over 83 per cent having been acquired by Brown Bros. and Albany. Application to make specific bargains may be submitted.

METALRAX. Metallux (Holdings), Birmingham-based engineering group, has moved into London with the acquisition of the trading assets and



BBA is giving the world a damn good belting

The BBA Group is very much a prime mover in the belting business through its member companies Scandura Limited of the UK and Scandura Incorporated of the USA. Scandura Gold Line fire-resistant mine conveyor belts are operating on every continent. There's one in America that's a mile long.

Scandura belts also carry everything from lumber in Canada, fish in Norway, to diamonds in Sierra Leone and spaghetti in Italy. BBA is big business in many languages. The Group has subsidiary companies all over the world with total sales which have tripled over the past nine years and are now running at more than £36m a year.

BBA's activities are so diversified that it is well protected against big fluctuations in market demands. BBA products include brake and clutch liners, non-friction reinforced plastic bearings and bushes, mechanical handling equipment, and asbestos and glass fibre products for insulation and flame-resistant applications.

BBA companies are well known but the Group name may be less familiar. So we have produced this advertisement to help put that right.

BBA GROUP LIMITED needed by every industry. BBA Group Limited, Cleckheaton, Yorkshire. Minter Ltd., Scandura Ltd., Cresswell's Asbestos Company Ltd., Sovex Ltd., Veral Ltd., Regina Glass Fibre Ltd., Comprehensive Computer Services Ltd., Railco Ltd., Marshall Handling Equipment Ltd., Overseas Subsidiaries in West Germany, United States, Spain, Canada, France, Australia, South Africa.

APPOINTMENTS

Lucas executive post
for Mr. M. W. Kendall

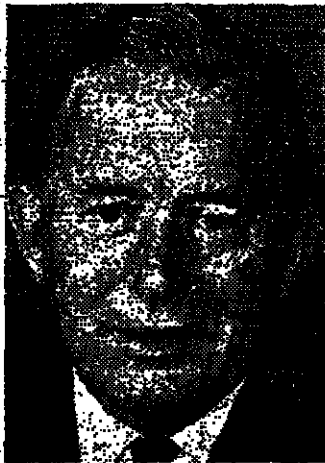
Mr. W. Kendall, a member of the executive Board of JOSEPH & CO. LIMITED, has been appointed as Lucas executive post. He will have group-wide policy duties, together with particular responsibilities for the co-ordination of the Lucas Group's activities in the Market and U.K. areas.

Mr. Kendall also became a chairman of the Lucas Group and has been succeeded by Mr. G. R. Packer, parent concern is Joseph (Industries).

Frederick W. Deming has been appointed chief economist of the Lucas Group subsidiary in France.

Mr. J. T. Davis, at present Lucas works manager, has been appointed executive director of Lucas in the U.K. and Ireland.

Mr. J. J. Eloy has been appointed president director of the Lucas Group in the U.K. and Ireland.



Mr. M. W. Kendall

Mr. Derek Blackburn has been appointed deputy chairman of the Lucas Group in the U.K. and Ireland.

Mr. E. J. Guthrie, a general manager of the Lucas Group, is retiring from the group on

December 31 after 45 years' service. From January 1, Mr. W. H. Brindle becomes general manager for the U.K. and Mr. J. Williamson and Mr. L. R. Hushon deputy general managers for the U.K.

Mr. Sidney Rosen, a director of Securities Agency, has joined the Board of LONDON AND OVERSEAS PROPERTY AND INVESTMENT COMPANY.

Mr. H. C. Burrows has been appointed director of ROBERT R. STOCKS (MANCHESTER).

Mr. R. G. Brett has been appointed as assistant managing director of MACE RAINBOW AND STONE.

Following the success of the offer by the Land Securities Investment Trust to acquire the capital of the WESTMINSTER TRUST HOLDINGS, the Board of the latter concern has been reconstituted.

Mr. L. Freedman is chairman, and Mr. F. P. W. Maynard, Mr. C. H. Behrens, Mr. K. D. M. Chapple and Mr. W. Mathieson become directors.

Mr. Walter B. Salomon, the Earl of Dartmouth, Mr. A. C. Guthrie and Mr. C. G. Morley have resigned from the Board.

SPORT: TENNIS

Deceptive fast court
topples Embassy seeds

BY JOHN BARRETT

THE EMBASSY Championships at Wimbledon, the last of the great open events in Britain before the ITF ban falls on all contract professionals on January 1 got off to a spectacular start yesterday afternoon—but the sort of start that brought frowns rather than smiles to worried committee faces.

Within the space of two hours three of the men's seeds had disappeared, chopped down by less fancied opponents on the lightning fast carpet courts before they had had time to acclimatise to the excessive pace after the leisurely bounce of Uni-Turf and Continental clay.

Marty Riessen, the seventh seeded American professional, was the first to fall—a surprise since his conqueror was the wily, balding South African Bob Hewitt whose own expertise generally flourishes on slow courts.

Majestic
His winning margin was 9-6, 6-4 achieved through steadier nerves in the first set tie-break and two breaks of service against one in the second set.

Then the tall, majestic figure of U.S. Army private Stan Smith, the U.S. Open champion, Wimbledon finalist, winner of last year's Pepsi Masters Tournament, and second seed here, lost his way against the sizzling returns of the Australian professional Ray Ruffels, who measured him 9-6, 6-4—an unhappy repetition of the previous upset.

Finally to the most surprising upset of the three, the defeat of the fourth seed Ken Rosewall 6-4, 6-2 by the South African two-handed doubles expert Frew McMillan.

Rosewall, so often a hero in this arena, where in professional events he has nine times been in the final with five singles titles; to his name since his first appearance in 1957, fell at the first hurdle for the first time in a glorious career and never once timed the ball with any assurance.

This year he has taken to using an aluminium framed racket and, like Laver before him, he appears to have difficulties with his normally so consistent ground strokes.

In the first set he lost the vital fifth game on his service to fall 2-3 behind. This was perhaps hardly surprising since he had come from the clay of Barcelona without any practice, but one felt that within a few games his touch would come.

In the eighth game he actually holed a break point on McMillan's service that would have given him four all and a

calmer outlook. But in a trice the point had come and gone and he was 5-3 behind.

With the set under his belt McMillan's confidence grew visibly. Perhaps he can count himself fortunate to have been asked to qualify for the matches



Ken Rosewall

on Saturday and Sunday at least gave him the feeling for the bounce.

Rosewall's anguish was apparent at once at the beginning of the second set for he projected four consecutive double-faults to lose his service in the opening game—though the court was not responsible for this.

It was the total lack of touch and feel for the ball that produced such anguish. Again in the seventh game two double-faults left him trailing 2-5 and it was no surprise

that McMillan won his own service to love for the match. Afterwards Rosewall admitted that the pace was altogether too much for him. He agreed he had played reasonably well on the same surface last year but then he had arrived in time for practice.

There is bound to be some sort of inquest on the use of these carpets but, in truth, the only real problem is one of acclimatisation.

During the course of a season players are continually having to change surfaces—none of which is more difficult than that to the fast grass of Wimbledon in mid-June.

Then, however, any player aspiring to the later rounds of the championships takes care to play a grass court tournament beforehand or at the very least to arrive four or five days early to get the necessary practice.

In context, with the international calendar becoming ever more crowded there is simply not time for such practice.

So for the future it would be wise for the sponsors and promoters of events to place close to one another in the calendar to agree on a uniform surface for all their events—be it fast or slow.

Mighty
The discomfort of the fancied players convinced me more than ever that Rod Laver the third seed's hands would be full against the mighty service blows of Roger Taylor when they met in their first round match later yesterday evening.

Mark Cox, Britain's only other singles representative following the defeat on Sunday of Gerald Battrick by the American Davis Cup player Tom Gorman has had his first-round match against Yugoslavia's Zeljko Franulovic postponed until to-day.

Lotus to power the
Jensen-Healey

BY MICHAEL CASSELL

THREE of the most famous names associated with high-performance motoring will be brought together next spring with the first appearance of the two-seater Jensen-Healey sports car powered by a Lotus engine.

An announcement yesterday brought to an end months of speculation concerning the choice of engine for the new vehicle. At one time it was thought a foreign power unit would be used and it is understood that plans for a link-up with BMW were thwarted because of capacity problems. The new model has been designed by the Jensen chairman, Mr. Donald Healey, and will be aimed at filling the market gap left by the disappearance of the Austin Healey 3000.

The car is to be called, quite simply, the Jensen-Healey, and production is scheduled to begin next April at Jensen's expanded West Bromwich factory. The vehicle will sell in this country for under £2,000 but is primarily seen as a model for overseas markets. When output eventually reaches 10,000 a year, over 60 per cent. will be marketed in the U.S.

Yesterday's announcement said Jensen and Lotus had signed a long-term contract for Lotus to develop a light-alloy four-cylinder, two-litre engine for the model. The four-valve, twin-cam unit is die-cast and designed to develop

140 bhp with 150 lbs. ft. torque and a top speed in the region of 120 mph.

The result of three years' development work, including a long-distance racing programme, the engine will be fully machined, assembled and tested by Lotus in a new, privately controlled plant at its Norfolk factory.

Mr. Colin Chapman, chairman and chief executive of Group Lotus, also gave an indication of his own company's future model development when he commented on the latest agreement. "The two-litre engine represents an addition to the Lotus engine range and will be introduced in a new, full four-seater addition to the Lotus car range late in 1972. It will not replace the power unit in any of the current models manufactured by us."

"Great carrot"
An all-time record in British car sales, production and exports is forecast for 1971 by Mr. John Beswick, director of the Society of Motor Manufacturers and Traders. He predicts an even brighter future for Britain's car industry, presented by Common Market entry.

"The promise of a 'home' market five times larger than the present U.K. market is a great carrot to hold before any manufacturer," says Mr. Beswick in an article in Canada-U.K. Trade News.

Japanese join Nigerians
in oil search

BY JOHN TRAFFORD

THE Nigerian Government has given approval for a joint venture between the country's State-owned National Oil Corporation and three Japanese oil companies to develop a new offshore concession area.

Tokai, Teikoku Oil and Mitsui Oil Development have been negotiating with Nigerian Oil to set up the venture since last month when they acquired concessions from the Nigerian Government for exploration in a 1,870-square kilometre offshore area. The three companies are transferring a 51 per cent. interest in their joint venture to the Nigerian State Petroleum Company (Nigeria) Ltd. Prospecting is expected to start this year.

National Oil was set up last April to gain a share in the oil exploration and production activities carried out in the country. It has already acquired interests in the operations of Phillips Petroleum, AGIP and the French Safrap company.

Two American oil companies,

Esso and Gulf, are being permitted to form joint ventures with Japanese interests in Okinawa, according to a Tokyo daily newspaper.

Esso plans to form a joint company with Sumitomo Chemical and General Sekiyu, while Gulf hopes to establish a company with Toho and Mitsubishi Chemical Industries.

Condition

Approval from the Japanese Ministry of International Trade and Industry was conditional on the new companies shipping not more than 20,000 to 30,000 barrels of oil to Japan. The agreement also agreed to Esso owning 50 per cent. of its joint venture with its partners having 25 per cent. each; Gulf and Toho are expected to own 45 per cent. each of the other companies with the 10 per cent. balance held by Mitsubishi Chemical.

Japan has not yet liberalised foreign investment in the oil industry.

Manchester Liners' pact
with Air Canada

BY OUR OWN CORRESPONDENT

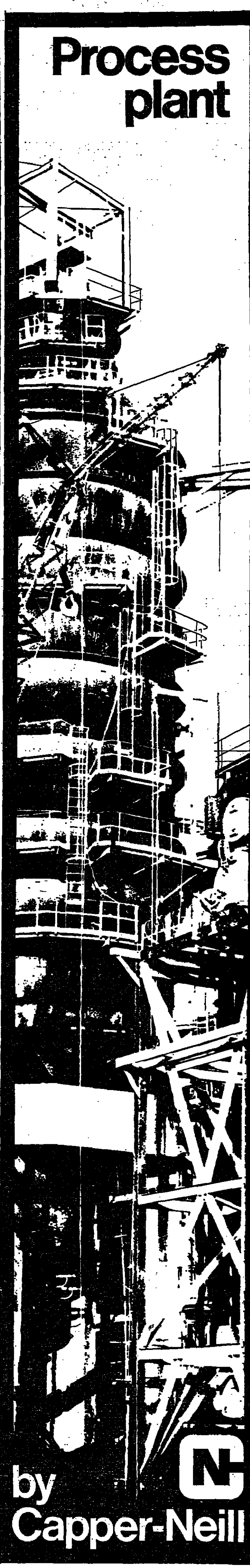
MANCHESTER, Oct. 25.

MANCHESTER LINERS—which has operated a specialised rapid freight service since 1969 by using a combination of sea and air—transit-to-day signed an inter-line agreement for promoting the service with Air Canada. It is claimed to be the first time an internationally-known container shipping line has joined forces with a major world airline in a service of this kind.

Mr. John Eden, Air Canada cargo sales and service director, said the air and shipping activities of the two groups were "not competitive but complementary." The bulk of cargo—at least 80 per cent.—on the Atlantic still crossed by sea.

Mr. Tony Roberts, managing director of Manchester Liners, stated that both companies recognised there was a new market to be developed. The air-sea combination offered an inter-line service as between all-sea and all-air freighting and there was "fantastic scope" for its development.

Under the trade name "Flying Fish," Manchester Liners has been operating the service based on Manchester and Montreal. At both trans-shipment points it has had the advantage of being able to use relatively un congested airports for forward or inward air transit. The new joint agreement covers all aspects of the service, including marketing and operational matters.



by
Capper-Neill

oland eases
German
border rules

WARSAW, Oct. 25.

East and West Germany agreed on an open border greater convertibility of currencies for citizens of the two countries, Government sources today. Probably from the coming of the New Year, they Poles and East Germans will be able to cross the border without passports or formalities.

Means of the two countries will be required only to provide police identification to prove their nationality. At the same time, the sources the limit on the amount of convertible currency would be lifted. At present Poles travel up to 7,000 zlotys (£122) East German marks.

The agreement makes East many by far the most accessible foreign country for Poles visit. At present, travellers East Germany or any other European country must obtain a supplement to their sports which normally takes at three weeks to get. If successful, the plan could extend other East European countries.

Judge upholds
cattle brand
patent claim

OPOSITION to the decision of a

superintendent examiner at the Patent Office that an application for a patent for freeze-branding of cattle could succeed, subject to suitable amendment, was dismissed by Mr. Justice Whitford, sitting as a Patent Appeal Tribunal, yesterday.

The opponents—the Hampshire Cattle Breeders' Society, British Oxygen, and the Milk Marketing Board—contended that any amendment should not be allowed because the application, by the Research Corporation of New York, came after publication of a scientific paper dealing with skin pigmentation changes by freezing with carbon dioxide.

The judge said that although the paper had been published before the patent application it could not be expected it would become so widely known as to invalidate an application. In fact, the Milk Marketing Board ran a competition offering £500 for a new method of marking cows after the publication of the paper, and no award was made because no suitable method was submitted.

The judge said the opponents would each pay £50 towards the cost of the appeal.

Wimpey at risk
during £1m.
fire-judge

GEORGE WIMPEY and Co., the

contractors, had nearly finished a £880,000 extension to a Harlepool factory when fire caused £250,000 damage to it, a High Court judge said yesterday.

Mr. Justice Mocatta held that Wimpey, which was insured, was still at risk when the fire occurred on January 18, 1970.

He granted the factory owner, English Industrial Estates Corporation, of Gateshead, the declaration it sought that the risk of fire damage still lay with Wimpey at the time and had not passed back to the corporation.

The judge said the work carried out under the contract by Wimpey was "far advanced" in all sections when the fire occurred, but none was wholly finished.

The contract had called for the contractor to insure against fire for the full value until "practical completion" of the works.

NEW POST FOR
DAME ELIZABETH

Dame Elizabeth Ackroyd has accepted an invitation to become president of the Franchise Association. She is director of the National Innovations Centre, and was formerly director of the Consumer Council.

Lyons Bakery
just saved a lot of dough

Lyons Bakery have put their old, bulky office copying machines on the ad line. Out went floor-space-hogging copiers that needed trained staff to operate them—and in came Copycat desk-top electrostatics.

Lyons are now saving money on every copy they make. With 48,000 copies a month going through, costs have dropped by an estimated £1,390 a year.

The new machines are unbelievably easy to operate. And gone

is the feeling that the office copier takes longer to warm up than the ovens... the Copycats are ready the moment they're switched on.

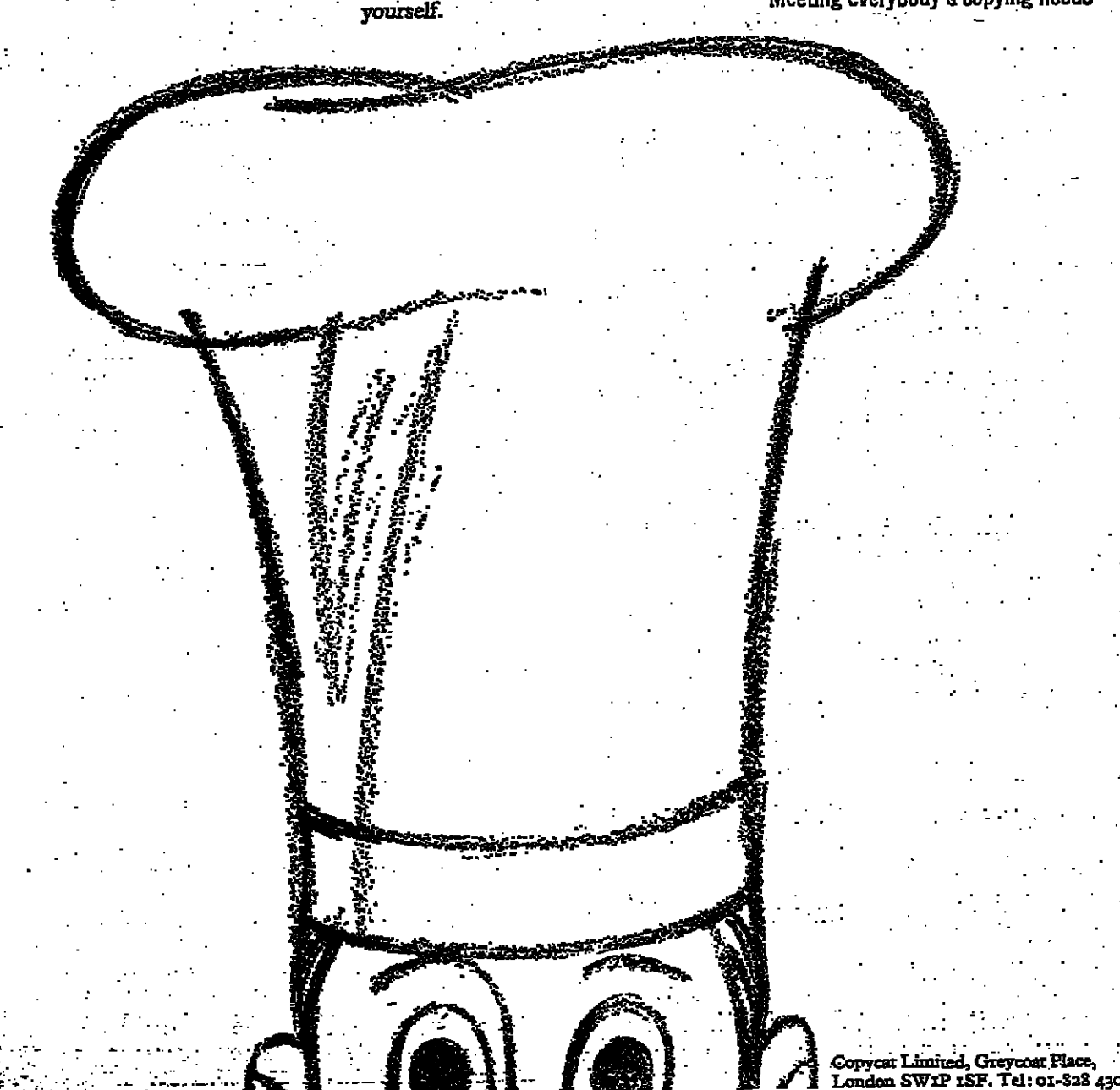
Other benefits they're enjoying at Lyons Bakery could also be to your liking whether you're making 48,000 copies per month or just 48.

Copycat have just produced a booklet called 'The real facts about Office Copying'. It tells you the snags and the benefits of all systems—then lets you make up your mind for yourself.

You can get your copy fast through the Post Office 'Freepost' service. Just put your name on your letterhead and send it to this abbreviated address—no stamp is required.

Copycat Ltd.
FREEPOST
London SW1P 1TX

Copycat
Meeting everybody's copying needs



Copycat Limited, Greycoat Place, London SW1P 1SF. Tel: 01-828 4300

INTERIM STATEMENT

"Jesscor"

Jessel Properties Limited
(Formerly West Vaalfontein Finance and Exploration Company Limited)
(Incorporating Corlett Drive Estates Limited)
(Incorporated in the Republic of South Africa)

DIRECTORS:

Messrs O. R. Jessel (British) (Chairman), C. E. Dixon (Deputy Chairman),
H. A. Rosenberg (Managing Director), S. P. Barnard, D. Cohen, A. R. C. B. Cooke
(British), M. A. Glasser, F. Melamed, J. Morgenstern, D. N. Walwyn,
K. C. Whyte D.S.O., D.F.C.

Interim report—
year ending 29th February, 1972

The unaudited results for the six months ended 30th August 1971,
compared with the same period for the previous year are as follows:

	6 Months to August 1971	6 Months to August 1970
Consolidated profit before tax	R'000 3,074	R'000 2,989
Less: Current and deferred taxation	1,409	1,323
Net transfer to reserve for deferred profit	1,665	1,666
	1,033	1,169
Less: Attributable to minority shareholders	632	497
Profit after taxation and deferment	401	672

Unaudited profits after taxation and deferment were R105,000 higher than the 1970 comparative figure. This was achieved despite the uncertain economic climate and the Directors consider that these satisfactory trading results should persist during the second half of the year as additional township land will become available for sale. The Directors have declared a dividend of 3½ per cent (3½ cents) per share and subject to no unforeseen circumstances arising, expect to declare a total dividend for the year ending 29th February, 1972 of 7½ per cent (7½ cents) per share as indicated in the Offer Document.

Declaration of Interim Dividend No. 8

Notice is hereby given that interim dividend No. 8 of 3½% (3½ cents) per share in respect of the year ending 29th February, 1972 has been declared payable to shareholders registered in the books of the Company on 12th November, 1971.

The Transfer Books and Register will be closed from the 13th November, 1971 to 19th November, 1971 both days inclusive. Dividend cheques will be posted on or about 22nd November, 1971. In terms of the Republic of South Africa Income Tax Act 1962, as amended, non-resident shareholders tax of 15% will be deducted by the Company from dividends payable to shareholders whose addresses in the Share Register are outside the Republic. United Kingdom income tax will be deducted from all warrants posted from the London office to shareholders with addresses in Great Britain and Northern Ireland.

Shareholders with addresses in Africa, south of the equator, will receive their warrants from Johannesburg; warrants despatched to addresses elsewhere will be posted from London. Dividend payments from the London office will be made in United Kingdom currency at a conversion rate of £1 = R1.72 South African currency, provided that should there be a difference between such conversion rate and the rate of exchange, ruling on 12th November, 1971, that may be regarded by the Board as material, then payments from London will be made in the equivalent United Kingdom currency at the rate of exchange ruling on that date.

By order of the Board,
JESSEL PROPERTIES LIMITED,
S. U. M. Martingano C.A. (S.A.)
SECRETARY

Transfer Secretaries
City Share Registrars (Pty) Limited,
901, Saabou National Building,
Cor. von Brandis and Commissioner Streets,
Johannesburg.
London Registrars
W. H. Stentford and Co.,
25/35 City Road,
London EC1Y 1BQ.

Staff body 'progress'
at General Accident

BY ROY ROGERS, LABOUR STAFF

DESPITE claims by the Association of Scientific, Technical and Managerial Staffs that some 650 General Accident staff have joined its ranks in the past few weeks, the newly formed General Accident Staff Association claims to have got "well off the ground."

Mr. R. G. Dow, secretary of the GA national staff committee, said yesterday he was very pleased with the progress of the new association. Many applications had come in from all parts of the country, but he was loath to put a figure to them as he wanted to "keep ASTMS guessing."

Elections started

Branches were currently electing their members for the nine new committees, who would then nominate representatives to the national executive.

Following this procedure, which is expected to take about a month, the staff association intends to register under the Industrial Relations Act. It is being set up, with the blessing of the management, to conform to the requirements of the Act and is designed to replace the existing staff committees which are unacceptable under the new legislation because they are employer-dominated.

Management denies that it is hostile towards ASTMS, which now claims more than one third of General Accident's 8,000 staff, but claims it will not negotiate with ASTMS until it has a majority of staff in membership.

Mr. Dow accepted that ASTMS might well have recruited 650 new members at General Accident recently, but believed this was due to a misunderstanding by staff in some areas who thought the new proposals were being "sold" to them without consultation. In fact, only draft proposals had been drawn up, the final decisions being left to the national officials once they are elected, he added.

Stevedores angry at plan
to pay rejected increase

BY ALEX HENDRY, LABOUR REPORTER

DOCK UNION leaders said last night they were taking action against the employers' decision to pay wage increases to their London members this week.

The row stems from the decision of the Transport and General Workers' Union to accept a £2.25 two-stage wage increase for its members in the London enclosed docks.

The National Amalgamated Stevedores and Dockers, the smaller of the two unions, has rejected the offer. But this week its members will get the pay increase, backdated to September. The executive of the NACD met yesterday to discuss the employers' decision and plan what action to take. This is being kept confidential until the members have been advised.

But last night Mr. Joe Payne, chairman of the London Ocean Trades Association, said: "We are not trying to force the settlement on NASD members. On difficulty is that we do not know which men belong to which union. We proposed the TGWU that the increase would be paid this week."

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Scottish
miners to
campaign
for strike

By Andrew Hargrave

EDINBURGH, Oct. 25

SCOTTISH miners' leaders are to carry out a pithead campaign in the next few weeks to persuade Scotland's 30,000 miners to back a nationwide strike in support of the union's pay claim.

"We'll be carrying the fight right to the National Coal Board," said Mr. Michael McGahey, president of the Scottish area of the National Union of Mineworkers, here today.

He was speaking after a Scottish delegate conference which unanimously endorsed last week's national conference decision to hold a strike in support of the union's pay claim as well as a stoppage of work on Monday. The Scottish area will also withdraw from the joint consultative machinery.

Parity deal

The union demands rises ranging from 25 pence to 45 pence a week against the Board's offer of £1.80 a week rise for surface workers and £1.75 a week for underground and other workers.

A complicating factor in Scotland is the early implementation of a long-standing parity agreement which will give face workers an extra 25 pence a week to bring them up to the East Midlands level of £2.00 a week. This is over and above any national pay rise.

Mr. McGahey warned, however, that the parity increase "will in no way buy the parity workers out of their struggle. They will demonstrate their unity in voting for a strike."

There are about 7,000 face workers in Scotland. Voting in the area will take place on November 26-28 and the result is expected to be known by December 1. "There could well be a strike over Christmas," said Mr. McGahey.

In the last strike ballot a year ago, which failed to produce the required two-thirds majority, the Scottish area voted 78 per cent in favour. Subsequently, the majority of Scottish pits took part in the abortive unofficial strike.

"A similar decision was taken by South Wales miners' delegates in March," Mr. Clym Williams, the South Wales area president, said it was a unanimous decision to support the national executive.

South Wales delegates were angry at the Board's pay offer which fell far short of the union's claim for a 35 per cent increase all round, he added.

The table below gives the latest available rates of exchange for the pound against various currencies on October 25, 1971. In view of the unsettled state of the foreign exchange market, rates for some currencies are not given. In some cases rates are nominal. Market rates are the average of buying and selling rates except where they are shown to be selling rates only. In some cases market rates have been calculated from the market rates of foreign currencies to which they are tied.

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Views sought
pensions plan

BY MICHAEL BLANDEN

EMPLOYERS, unions and pension organisations have been invited to give their views to the Government on the new policy for pension schemes outlined last month by Sir Keith Joseph, Secretary for Social Services. Sir Keith announced yesterday that a memorandum on the pensions White Paper had been sent to the main representative organisations involved.

The memorandum discusses details of the proposed changes as they affect private pension schemes, and invites comments at the latest by the end of January. Last month's White Paper set out proposals designed to encourage the development of private pension arrangements. The Government's new deal every working individual would have two pension provisions. The State would offer a basic flat rate pension, with protection against inflation. The private sector would be the main source of pensions related to the individual's earnings, though the State would set up a reserve scheme, of substantial proportions, to cope with the people who would not be included in private schemes.

The memorandum examines in more detail two of the major aspects of the White Paper proposals. It considers the rules proposed under which private occupational pension schemes would be recognised, and it examines the proposals for the preservation of pension rights on a change of employment.

The memorandum points out that the enlarged role which occupational pension schemes will be called upon to play in the new arrangements makes it essential for the Government to have the views of employers, unions and pension organisations on a number of both on the conditions which occupational schemes would be working and on the effect of rising prices in the buying power of pension payments once in and to ensure that the scheme is properly secured.

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Michael Rivkin, chairman of Renslade Investments (right), points out a feature on a model of the development scheme to Sir David Burnett, chairman of Hay's Wharf (left), and Mr. Gabriel Harrison, of Amalgamated Investment and Property (centre).

Hay's Wharf £300m. Sth. bank redevelopment plan

by ARTHUR SMITH

AS TO redevelopment a 35.5-acre site on the south bank of the River Thames, but negotiations about its phasing would have to take place with the Greater London Council.

The Hay's Wharf scheme has been divided into three sectors. Renslade Investments (City)—a company owned jointly by the Renslade Group and Amalgamated Investment and Property—has been appointed to undertake development of an eight-acre site immediately to the west of London Bridge. Southwark Council is on this site.

ree sectors

The 2m. square feet of net lettable office space is planned along with two major hotels, 626 flats, shopping and other amenities.

David Burnett, chairman of Hay's Wharf, revealed that the scheme, which started in 1967, now had nearly all the land within its boundaries.

Responsibility for development of the whole area had been settled. The details of land tenure had been worked out. The scheme was to depend largely on how planning permission and development permits became available, Sir David reported.

The project had been based on the premises contained in the draft plan prepared by the City of London Council. The third and biggest sector was to be carried out by Renslade Investments (London), is soci-

ally the most important, the company's comments.

The entire office content—857,000 square feet in four blocks from seven to 32 storeys—will be set well back on the site, leaving the river area free for major residential and amenity purposes.

A 110,000 square feet shopping centre will form the base of an office block and will be the focal point for shopping within the whole complex.

A £20m. scheme for Government offices at Vauxhall, London, has been submitted to Lambeth Borough Council by the Department of the Environment.

The proposed major redevelopment at the southern foot of Vauxhall Bridge would include provision for a hotel, shops and a public house, said the Department. The scheme could start next year and be completed by the late 1970s, it added.

Much of the freehold is owned by the Corporation of the City of London, but Hay's Wharf owns the freehold of a quarter of the sector and has the benefit of long leases on most of the remainder, Sir David said.

The developer appointed is St. Martins Property Corporation.

The feasibility of converting the original Hay's Dock and surrounding warehouses into a 400-room hotel is being investigated. The third and biggest sector was to be carried out by Renslade Investments (London), is soci-

New day of terror in Ulster

by JOHN GRAHAM

BELFAST, Oct. 25.

THE TERRORISTS in Northern Ireland to-day continued their tactics of ambush and specific assassination. Several people have been wounded, but at least by early evening none had died.

By six o'clock this evening there had been 15 incidents involving British troops. Some idea of the severity of the present situation can be drawn from the fact that simply because there had been no fatalities the authorities were prepared to consider it a relatively quiet day.

Ring at door

Early this morning Constable Sean Hughes, a Roman Catholic, was shot in the head by a terrorist firing from the opposite side of the street, when he looked out of his bedroom window after a ring on his doorbell. He is seriously ill.

A spokesman at police headquarters said: "We are treating this as another assassination attempt on a member of the force."

At lunchtime there was what may have been an attempt on the Recorder of Belfast, Judge Topping. Four men entered his house in a fashionable suburb, but fled when they saw his housekeeper.

Two or three houses in this neighbouring area have been burnt to the ground by arsonists over the last few months. There is a theory that they were mistakenly set on fire, and that the intended victim was Judge Topping.

A policy of specific assassination appears now to be part of the IRA strategy. Such incidents have become more frequent since an attack in central Belfast 10 days ago, when two plain-clothes policemen were machine-gunned to death in their car.

Co-ordinated ambushes to-day, British soldiers in the Andersonstown area of Belfast came under gunfire just before dawn from "several locations."

There were no casualties among the troops, but a woman was shot and seriously injured. As for the two women shot dead on Saturday, and about whom there is still a controversy, IRA death notices in this morning's newspaper suggest that the authorities' version may be correct. One of the women, Dorothy McGuire, 19, was described as a "staff officer" of the Republican Women's organ-

isation. Another notice described both her and her sister, Mrs. Moira Meehan, the other woman who died, as "comrades."

In other trouble to-day all over the province, soldiers were fired on in many areas of Belfast, the Army post at Bligh's Lane, Londonderry, came under minor attack, and soldiers trying to blow a crater in a border road were fired on from the southern side of the border. The shots hit a narrow skinned vehicle but no one was hurt.

In Newry, where there was serious rioting last night and some trouble this afternoon, all the shops closed early, and there is evidence already that some Protestant families are moving out of districts which are predominantly Catholic.

The death toll from last week-end, the worst week-end since the intensification that began in August, has increased to the number of victims this year to 100.

Although the frequency and the degree of the outbreaks now commands attention almost to the exclusion of anything else, the political manoeuvring of this fabled province drag on.

First "assembly"

To-morrow, for instance, the so-called Alternative Assembly holds its first meeting at Dungiven. Many behind this movement—elected politicians who have renounced Stormont, the Unionist system and all its works—spoke yesterday at the annual convention of the Social Democratic and Labour Party.

Mr. Gerry Fitt bound himself to the defeat of Unionism through his party, which he described as non-sectarian, and indeed anti-sectarian. Mr. John Hume, president of the Alternative Assembly, recommitted himself to non-violence. The first assembly in the present situation, he said, was to bring about a reconciliation between the different traditions in Northern Ireland.

The Northern Ireland Government, meanwhile, is preparing to publish what is known as its consultative document. Among other things, this will set out its plans for proportional representation. It is thus an official attempt, if you like at reconciling the different traditions, but the tempo of violence gripping the country at the moment is likely to be too fast for it.

Vehicle and General Tribunal of Inquiry

Whitehall foresight could have saved misery—QC

THOUSANDS of motorists holding policies with the collapsed Vehicle and General Insurance Company could have been largely saved from their "miserable predicament" by the appropriate degree of appreciation, foresight and fortitude on the part of the Government officials entrusted with their protection, claimed Sir Elwyn Jones, QC, yesterday.

Sir Elwyn was making his final speech on behalf of policyholders and shareholders of V & G to the Tribunal investigating the company's collapse.

He strongly indicted the Insurance and Companies branch of the Department of Trade and Industry and its officers for failing to intervene in the affairs of the company as they were empowered under the statutes. He referred both to the Insurance Companies Act, 1938, and the Companies Act, 1967, under which the branch's powers of intervention were expanded.

He submitted that Section 14 (1) of the 1938 Act was intended to require that in any case where it was not already satisfied beyond reasonable doubt that a company's solvency margin was intact, then the company should give any one or more of the prescribed forms of assistance as specified by the branch.

He alleged that the officers of the branch in this earlier period of V & G's existence confused themselves in two ways, and the confusion to some extent overlapped. The became lost in a sea of semantics.

One could collect a multiplicity of verbal formulations. It had been said that it was necessary "to be sure in advance that the inspection would produce evidence of insolvency."

It had been said that "there must be some circumstances suggesting insolvency," that "there must be reasonable doubt as to whether a company is insolvent," that "there must be solid grounds for thinking that a company is in fact insolvent," and that reasonable grounds were needed "for suspecting that a company was or might already be insolvent."

He said that to the extent that in any particular year the branch's officers were or should have been seriously concerned about the possibility of under-estimation for outstanding claims, then Section 14 (1), properly construed and applied, would have given them the means of removing or confirming that uncertainty, which must bear on the existence of a solvency margin itself.

Policy

Sir Elwyn said that not a single memorandum from the DTT's solicitors could have given the insurance branch comfort for the views it had advanced.

He invited the Tribunal to conclude that the most by way of qualification which could be derived from any of the advising solicitors was that the power under that section should be exercised carefully and should not be exercised frivolously.

He said the Department was to be criticised in one of two ways: either the relevant officers failed to apply their minds to the matter at all; or they unjustifiably established for themselves a policy, a practice or a habit which put Section 14 outside the bounds of action.

He said that since their attention had been drawn from time to time to the differences of construction of Section 14 powers by the British Insurance Association, the conclusion seemed inevitable that "we are in an area of practical reluctance, and not inattention."

Guilty

If that was the case, his submission was that, as Under-Secretary, Mr. Christopher Jarman was primarily to blame after he had replaced Mr. Stacy in 1964 and that Mr. Cyril Homewood, the Assistant Secretary, who had been in the insurance branch since January, 1961, must share that blame.

He said it was also his submission in respect of Mr. Jarman and Mr. Homewood that by excluding from their effective armoury the only statutory provision by which the truth could have become known, they were guilty of negligence.

He added: "A self-inflicted incapacity within a sphere where one's supervisory functions can only be discharged through the medium of that capability which is made sterile by a submit, a clear form of negligence."

Sir Elwyn said the expectations which attended the passing of the successive Act to prevent insolvency were relevant. If, contrary to his submissions, the Tribunal concluded that the branch's officers might reasonably be in a state of doubt, because of the legal advice they had been offered, then they should have been prompted to clarify those doubts from other legal sources, with the object of acquiring the potency which, both the public and the BIA expected of them.

He said the branch appeared to have accepted there was a legal duty to see that a prescribed solvency margin should be maintained by insurers. It was also accepted by all its officers that this was a real exercise which concerned the actuality of the solvency margin and not simply a figure which was yielded by a few minutes' examination of the arithmetic.

Misconception

He said it was a matter for consideration whether the branch officers were as clear in their minds about the implication of this general-duty at the time they were supposed to be discharging it.

Sir Elwyn said another general point which represented the departmental misconception arose from the balancing of assets and liabilities. All the way through the branch witnesses had said it was possible to be free of doubt with regard to the solvency after

some discounting of the assets, though the company's outstanding claims figure was left virtually as it stood in the accounts.

He said the constantly reiterated phrase was that the Department was concerned only about the degree, and not the facts of solvency. It seems the approach was that the reserves had always to be taken on trust as very largely they were and could not be respectably challenged in the course of the branch's computations.

Sir Elwyn claimed that negligence started with the fact that the branch never seemed to have considered an alternative approach. If that was the furthest they reached in their processes of thought it was not surprising their examination of individual assets was largely uncritical.

Failure to give serious consideration to the break-up basis for a valuation of the assets represented negligence all along the line.

Fundamental

He said it affected Mr. Jarman at the top, through Mr. Homewood down to Mr. Norman Nall, chief executive officer at the earlier period, and the equivalent officers at the later stage.

He said it affected them all because the point was both fundamental and elementary.

It was plain, he said, that the branch never sought advice from any quarter and never thought it was necessary to do so.

Sir Elwyn said the branch had always said comparisons were misleading because there were features of V & G's operation which made it distinguishable from any master company and distinguishable from the norm.

He said whenever one looked at a departmental minute dealing with this subject, one found acceptance of the discrepancy coupled with immediate reliance on some alleged feature of V & G's business which made the comparison unhelpful.

PROVINCIAL CUTS INTEREST RATES

Provincial Building Society is cutting the rate of interest on existing mortgages by 1 per cent. per annum to 8 per cent. from January 1. New offers will be at the lower rate from November 1.

Interest on investment accounts will be reduced by 1 per cent. per annum from January 1, except for the linked Paid Up Share-Save As You Earn scheme, in which interest on existing accounts will remain at 5 per cent. until 60 transfers to SAYE have been completed.

OBITUARY

Mr. W. M. Fenton, financial director of the Guthrie Corporation, died on Saturday.

"Seawing" holiday plans

by JAMES McDONALD, SHIPPING CORRESPONDENT

NEXT YEAR the P & O and Horizon Holidays will more than double the size of their "Seawing" fly-stay-cruise programme. The 1972 programme comprises 25 holidays of from eight to 17 days with a choice of five P & O liners—Canberra, Oriana, Arcadia, Orsova and Chusan—and hotel accommodation selected by Horizon in the nine areas: Greece, Corsica, Ibiza, Sicily, Majorca, Spain, Portugal, Italy or the Canary Islands.

A typical 14-day holiday quoted by P & O in the programme involves leaving London's Heathrow on August 5 in a jet to Athens, staying six days in an hotel in Athens or by the sea, and joining the P & O liner Oriana for a cruise back to Southampton, with calls at Beirut, Gibraltar and Lisbon. Fares for this particular holiday range upwards from £183 in a four-berth tourist cabin to £245 in a single first-class cabin.

A total of over 1,000 holiday berths will be available in the programme, with prices starting at £88. Details are given in the 1972 Horizon Holidays brochure. P & O passenger division's U.K. manager, Mr. Peter Wise, comments: "With the travel market's growing tendency towards two centre holidays, we are confident

New foreign partnership for Hambros

By Michael Stander

A FRESH international link between Hambros and West Germany brings a new partnership for Hambros Bank. As reported in the Financial Times on Saturday, Banque de l'Union Européenne is linking with West Germany's largest banking group, Westdeutsche Landesbank Girozentrale.

A major effect of the move is to bring in the French bank, with which Hambros has had an association for many years, as the third partner in the operation of Bankhaus Baurgardt and Brockelschen, the investment bank of Dortmund and Düsseldorf. At the end of the last year Hambros took a third interest in this business. Under the new agreements the Westdeutsche Landesbank will cede to the French bank a one-third interest in Baurgardt.

Furthermore Banque de l'Union Européenne will acquire 25 per cent. of Franco Finanz Beteiligungs-Gesellschaft, a German holding company, which controls the Banque Franco Allemande in Paris. The other 75 per cent. of the capital of Franco Finanz Beteiligungs-Gesellschaft is held by the Westdeutsche Landesbank Girozentrale and the Deutsche Girozentrale.

In consideration for the shares of Bankhaus Baurgardt and Brockelschen Westdeutsche Landesbank Girozentrale will receive shares of Banque de l'Union Européenne, representing approximately 4.6 per cent. of the capital of this bank.

Chrysler bid to protect used car buyers

Financial Times Reporter

CHRYSLER U.K. yesterday announced a "watchdog" scheme designed to improve the standard of used cars sold by its dealers. Under the plan dealers will have to satisfy the company that their facilities for preparing, presenting and servicing used cars are of a high standard decided by Chrysler. They will have to provide warranties for the vehicles sold, the terms to be decided on an individual basis and, in the event of a complaint which cannot be resolved, Chrysler will act as arbitrator.

Called the Chrysler Dependable Used Car Programme, the scheme will apply to any vehicle up to three years old with less than 30,000 miles recorded. It will be introduced by selected dealers first and 70 should be appointed by the end of this year. The majority of the 1,000 Chrysler U.K. dealers are expected to join in eventually.

Smokeless fuels 'satisfactory'

STOCKS OF solid smokeless fuel are satisfactory, Sir John Eden, Minister for Industry, said in a written reply.

"Producers and merchants are confident that, provided production continues normally, they can meet the demand this winter," he said.

Mobil North Sea leases drilling ship

MOBIL NORTH SEA, an affiliate of Mobil Oil Corporation, has signed a lease for the 1972 use of the drilling ship Glomar V, with options to renew for up to two additional years. At present, the vessel is due to begin drilling operations in the North Sea early in April, Mobil added.

One of the early drilling sites would be Block 9/12, which was successfully bid for recently by a group of companies for which Mobil is the operator.

TV advertising nets extra 14.2%

by PAMELA JUDGE

TV advertising revenue rose by 2 per cent. in the first nine months of the year compared with last year according to the Independent TV Companies Association.

With pre-Christmas spending advertisers still to come, it looks certain that 1971 will set a record for the industry. The total to September reached £75.2m. compared with £73.2m. in 1970.

Last year's strike at Granada had accounted for £9.3m. against £0.000 lost revenue, but Mr. Nigel Rogers, managing director of the British Bureau of TV Advertising, making a "cautious" forecast yesterday, said the total for this year might be £108m. against the previous high of £98m. in 1968.

This will include revenue from higher advertising rates coming into operation this autumn. But the amount of short-term booking at the moment makes the final total uncertain.

Revenue for September alone was just over £9.3m. against more than £7.5m. last year.



Keep a sharp look-out for Renoir copies

The offer of free Impressionist reproductions which Landis & Gyr made recently in this newspaper proved to be so popular that it has been decided to double the print order to 2,000.

Even so, we shall have to disappoint a number of late applicants and we regret that the offer must now be considered closed.

Victoria Road, North Acton, London, W.3. Telephone: 01-992 5311 Telex: 21486

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HOTELS AND CATERERS-Cont'd

"Recent Issues" and "Rights" Page 27

TEAS—Continued

501001

THE LEX COLUMN

Ratings in the warrant market

With provisos around the very plausibility of a bid for Trust Houses Forte, with a whole spectrum of values depending on the terms, and finally, with the warrant market in despondency, the THF warrants are as difficult a security to evaluate as could be found. As far as the risks inherent in any bid terms are concerned, a cash bid (on the Hoechst/BUN lines) or a part loan stock offer still appear the most likely hazards: otherwise, there is at least comfort in the precedent of the Lombard Bank convertible, whose holders managed to eke a 5 per cent. higher offer out of Natwest, on the grounds of the equity inherent in a long conversion period.

But the recent deterioration in ratings in the warrant market has cast some doubts on the upward potential supporting all went well for the THF warrant holders. The Hill Samuel warrants provide an extreme illustration. Over the past six trading days, the HS warrants at £14½ last night have fallen 32 per cent. against a negligible fall in

the ordinary. The result is that a gearing ratio of well over four combines with conversion terms which would be just about as attractive as those of the THF warrants were THF ordinary standing at 180p (against 154p at present). It is fortunate, in fact, that the HS warrants look anomalously cheap.

Delta MEM

The Board of Midland Electric Manufacturing may not be disposed to welcome the bid from Delta Metal—equity convertible in a 53:47 ratio, worth 104½p against MEM's price of 94p, up 3p last night. It has a certain amount of ammunition, too, in Delta's cyclical record, its low growth markets and the recent sluggishness in orders for heavy semi-fabricated copper products—with buyers tending to hold off while the copper price was slipping.

On the other hand, MEM has exhibited a certain degree of cyclicity itself, and what growth it has been able to achieve in recent years seems adequately 3.4p to 5.1p fully diluted—

reflected in an exit p/e of around 18.7 prospective against 12½ for Delta itself. MEM, therefore, will have to dig up either some juicy prospects or a counterbidder to put the Delta approach out of court. As for Delta itself, a bid adding 18 per cent. to the equity (ultimately) and 12 per cent. to earnings is justified by a move closer to the consumer, and into products with a higher added value. This, like Glywedd Allied Ironfounders, may be another indication of current earnings being sacrificed for better prospects in the future. See also Page 27

Central Mfg.

If anything, the 1970-71 results from Central Manufacturing and Trading are somewhat less encouraging than the April interim report implied. Profits may have risen from £1.1m. to £1.5m. before tax but virtually all of the increase is due to acquisitions; the acquisitional growth was as expected, as was the rise in earnings from £1.1m. to £1.5p fully diluted—

hence, one supposes, the slight easing in the shares which closed 1p lower at 58½p last night.

That, then, could be the general view of CMT, leading to a low-grade p/e of 11.3. But it does not look like the right view, either on performance or prospects. Over the past seven years, CMT has traded its basic merchandising, distribution and processing skills—traditionally in rubber and industrial products, but more recently in steel stockholding, drop forgings, light engineering etc.—into a compound earnings per share growth rate of over 20 per cent. Coming to last year, its performance in hitting the £1.5m. target was in fact impressive, considering that steel stockholding and metal processing (a near disaster for some) accounted for nearly 40 per cent. of trading profits with margins only 1.9 points lower at 6.7 per cent. Coming to the current year, CMT is unlikely to hold out great hopes for the first half, but it is banking on an uplift in

the second six months—when, inter alia, it should have the benefits of major capital investment on the steel scrap side beginning to show through. With other companies, this might sound like pie in the sky: with CMT, however, past performance must add credibility to its views on prospects. See also Page 28

Pontin's

Sticking to its peculiar habit of reporting, effectively, a year in arrears—1970-71 figures reflect the 1970 season, and the 1971 season has now just ended—Pontin's is in line with the expectation at £2.25m. pre-tax up 11 per cent. The crucial point, of course, is what has happened since, and the word here is of a further profits increase for the 1971 season in spite of the problems caused by the postal strike in the middle of the booking season. And there is more volume growth in the pipeline: the new U.K. self-catering villages at Prestatyn and Hemsby were only open for

the latter part of the past season, and then not at full capacity, so 1972 U.K. capacity should be about a fifth greater than in 1970. On top of this comes the established Seacroft camp at Hemsby, which has just been bought, and developments at Pontin's where expansion is planned in Torremolinos, Sardinia and Majorca.

Of course, Pontin's has been threatening to become a growth stock for some time, without ever quite making the grade: at 25½p the shares are selling at 18½ times 1970-71 earnings of 1.35p a share, fully diluted, and still require some assurance about margins and capital spending. In the past couple of seasons profits appear to have slipped behind the growth rate of turnover and capital employed. In contrast to Bultin's, however, the group has been skilful in isolating growth areas—self-catering camps in the U.K., Mediterranean villages overseas—and there could yet be a bunching of profits growth over the next two or three years. See also Page 28

STEEL

PERSONAL STEEL SERVICE
FROM ALL GKN STEEL
STOCKHOLDING COMPANIES

Lombard

Germany
can only
speak for
itself

BY C. GORDON TETHER

THE Germans are, of course, entitled to express their views on the way in which the international monetary crisis should be handled. But they surely ought to give a lot more thought to the manner in which they are themselves behaving and to the wider issues involved before they start accusing other countries right and left of not playing the game in the floating rates business.

To begin with, one would assume from the vehemence with which Professor Schiller, their Minister for Economic Affairs, has been denouncing other countries for having resorted to exchange controls, official intervention in the currency market and similar devices to prevent their currencies floating higher than they consider desirable, that Germany has been behaving in altogether irreproachable fashion in this respect. Yet in reality the Germans have been engaging in much the same practices.

Rules vacuum

After all, they have imposed restrictions on the interest that banks may pay on foreign funds as well as on certain forms of international financing activity—measures that are clearly disguised forms of exchange control. And recently they were reported to have taken an additional \$1,000m. into their external reserves with a view to preventing the appreciation of the D-mark when no agreement had been reached on the rules that should govern a new game, individual players are hardly justified in complaining if the others on the field do not feel called upon to form the rules of what would seem to be a game.

Germany is so anxious, it would seem, to do everything she can to indulge the Americans that she sees no objection to falling in with the U.S. suggestion that market forces should determine the freest play to determine a new pattern of parity rates. Other people can, with every justification, feel very differently.

Final arbiter

For another, to agree that even the present basic relationship between supply and demand for dollars was to be accepted as a final arbiter of the new world parities system would be to concede that the Americans had right to count upon their existing payments policies being indulged by the rest of the world for ever and ever. It would mean, in other words, that other countries had tacitly consented to establish whatever exchange relationships were necessary to enable the U.S. to go on buying up their assets at a rate of upwards of \$5,000m. per annum. This may seem all right to the Germans. Alternatively, they may consider it vitally important to keep in with Washington for other reasons—connected, for example, with the fear that the U.S. may act on all the talk of withdrawing its troops from Europe if the plan to keep dollar imperialism on course is frustrated. In which case they may be ready to stomach all the distasteful features of present American policies without a murmur. But they can hardly expect countries with other ideas about the way in which to deal with U.S. bullying to be ready to adopt a similarly humble posture.

Disruptive

Finally, the German contention that countries which are ready to subscribe to their ideas of the manner in which the floating game should be conducted are playing "dirty" relies on ideological considerations of a highly controversial kind. Since nothing but good, they say, can come from allowing market forces maximum free play, any interference with them must automatically be harmful. One would have thought that if recent experience taught us anything at all, it is that this is not so. Of those good things of which one can have too much, we can all now clearly see that freedom for vast amounts of hot money to rush madly from country to country can be most disruptive and this being so, the most sensible thing for hot money to do is to maintain a discreet silence, start

Horizon tells tour rivals to 'face the facts'

BY ARTHUR SANDLES

MR. VLADIMIR RAITZ, owner of Horizon Holidays, which has told Continental hoteliers in future it will not share accommodation with Clarks, Thomson-Skytours, Cosmos, Blue Sky and Sunair/Luna Poly, last night hit back at rivals who accused him of "arrogance".

He said that tour operators who suggested he was being arrogant "should learn to face the facts. Instead of hurling petulant abuse, they should take note of the new mood within and without the travel industry."

"Certain standard"

Mr. Raitz recently wrote to some 400 hoteliers telling them that in future Horizon would not send customers to hotels who cater for other named U.K. operators. This would allow

Horizon "to offer a certain standard of service for clients and the company."

There was an immediate response from other operators who suggested that Horizon did not want to offer the same hotels in future because it charged more to its customers than they did.

Mr. Raitz argues that this is not the case. "Hotels are not being forced to compromise on standards; travel agents are fed up with the backwash of bad press publicity which inevitably results. And, more than ever before, holidaymakers themselves have a right to expect from tour operators more than just lip service and colourful brochures."

He argued that other companies indulged in exclusivity policies and he was taking a basic hotel-negotiating principle to its logical conclusion.

"After-sales arbitration schemes are all very well. But we are concerned with prevention rather than hindering cut-throat competition. This is an obvious crack at market leader Clarks which is campaigning for an industry-wide arbitration system."

The argument should be seen against a background of debate over tour-operating margins. Such companies as Clarks, Thomson, Sunair and Cosmos are involved in a fierce price war.

Mr. Raitz said: "Tour operators who continue to expound the maxim that paying a hotelier a little more is not the way to improve standards, are completely out of touch. The feelings of the vast majority of people to-day, especially hoteliers, prove that marginal costings are beginning to endanger standards."

Many years

BY HAROLD SOLTER, INDUSTRIAL CORRESPONDENT

HOME ORDERS for British-built machine tools fell to their lowest level for many years in July, according to provisional figures released yesterday.

Net new orders from the home market were worth only £3.7m. during the month, compared with £8.2m. in June and figures as high as £11m. at this time last year.

If the industry's order book slipped on the path suggested by figures released so far, it would sell only £70m. worth of machine tools in Britain this year, some £40m. less than in annual rate of about £72m., well since 1967.

1970 and over £60m. less than down on last year's final figure of \$86.7m. Unfortunately, there is often an improvement in order-book during the late summer and early autumn.

Deliveries of machine tools to the U.K. market were running at £7.2m. in July, and those to overseas buyers at £6.2m. The total delivery figure for the month of £13.5m. is a very low figure.

With a total of £117.8m. of July, the machine tool industry's order book was thinner than at any comparable time of the year since 1967.

Malta claims Mintoff set for new round of London talks

BY OUR OWN CORRESPONDENT

VALLETTA, Oct. 25.

MR. DOM Mintoff, the Maltese Prime Minister, will fly to London next week for another round of high level talks on future defence arrangements on the island, according to Press reports here.

It is believed that he intends to start tackling the financial aspects of a possible agreement with Britain while top civil servants discuss the military angles. The Maltese who must remain in the services' employ irrespective of the current run-down.

Denial Foreign Staff writes:—The Foreign Office denied all rumour led last night that Mr. Mintoff might be coming to London. A spokesman said Sir Alec Douglas-Home, the Foreign Secretary, may be in Rome next week, and that Mr. Mintoff would hardly come when he was out of the country.

The news that Mr. Mintoff will

be going to Britain was announced by the General Workers Union morning newspaper to-day, while newspapers here continue to speculate on how friendly Mr. Mintoff and President Khedafi really are now.

It is alleged that thousands of motorists holding policies with the company could have been largely saved from their "misericordant predicament" by the appropriate degree of appreciation, foresight and fortitude on the part of the Government officials entrusted with their protection.

Sea of semantics Officers of the Insurance and Companies Branch of the DTI became lost in a sea of semantics, he alleged. In his submission Section 14 (1) of the 1968 Insurance Companies Act enabled the branch, if unsatisfied with a company's solvency margin, to require the company to give any form of assistance prescribed by the branch.

He told the tribunal the conclusion seemed inevitable that we are in an area of practical reluctance and not inattention. In that case, he continued, as Under-Secretary Mr. Christopher Jardine was primarily to blame after he had replaced Mr. Stacy in 1964, and Mr. Cyril Homewood, the Assistant Secretary, must share that blame.

Sir Elwyn submitted in respect of Mr. Jardine and Mr. Homewood that, by excluding from their effective armory the only statutory provision by which the truth could have become known, they were guilty of negligence. Failure to give serious consideration to the break-up basis for a valuation of the assets of V and G represented negligence all along the line, he declared.

Sir Elwyn alleged that it affected Mr. Jardine at the top, through Mr. Homewood down to Mr. Norman Nail, chief executive officer at the earlier period, and the equivalent officers at the latter stage.

Some of the officials of the Department of Trade and Industry were negligent in their handling of the Vehicle and General Insurance Company, Sir Elwyn Jones, Q.C., representing shareholders and policyholders, told the V and G Tribunal yesterday.

He alleged that thousands of motorists holding policies with the company could have been largely saved from their "misericordant predicament" by the appropriate degree of appreciation, foresight and fortitude on the part of the Government officials entrusted with their protection.

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Britten-Norman carries on production

By Michael Donne

BRITTEN-NORMAN, the Isle of Man aircraft manufacturer, is continuing business while the Receiver, Mr. Maurice Eckman, of Price Waterhouse, continues his investigation into the company's affairs.

This became clear yesterday, the first full day of business after the announcement on Friday afternoon that the joint managing directors, Mr. Desmond Norman and Mr. John Britten, had called for a receiver following a decision by Exporters' Refinance Corporation to recall loans of up to £2.8m.

Mr. Eckman, who began his task over the week-end, is now seeking to establish the basic facts of the company's business prior to seeking ways and means of keeping the company alive. It is hoped that he may make a statement within the next few days.

Mr. Eckman is to visit the factory at Benbridge again to-day. In the meantime, a spokesman for the workers' side of the company's productivity council said that while they had no information about the future "at least we have had an unofficial assurance, which satisfies us, that we shall get our wages at the end of the week, whatever the future holds."

V and G: Department criticised by Counsel

By John Hunt

SOME OF the officials of the Department of Trade and Industry were negligent in their handling of the Vehicle and General Insurance Company, Sir Elwyn Jones, Q.C., representing shareholders and policyholders, told the V and G Tribunal yesterday.

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Air France in airbus riddle

BY ROBERT MAUTHNER

PARIS, Oct. 25.

DOUBTS about the future of the ately exaggerating Air France's Franco-German-Dutch Airbus, "indiscision" which could have been raised by merely reflect a prudent negotiating position on the price of the West Germany may pull aircraft. On the Government's out of the whole project, have side, at any rate, there have been found a certain echo in France, where the national airline, Air France, is said to be hesitating about buying the aircraft.

Although Air France has been categorically denied newspaper reports that the planned expansion of its 20-strong fleet of Boeing 727-200s implies that it will not buy the Airbus, it is clear that the final decision to place orders has not yet been taken.

Financial talks

The Air France Board is due to meet within the next few days to discuss the whole question, after the conclusion of negotiations on financial terms between the company and Aerospatiale, the French aircraft industry.

The CGT appeals to the Government to provide Air France with sufficient funds to safeguard the future of the French aircraft industry.

Price position

It is quite on the cards, of course, that the CGT, whose declarations are almost always politically motivated, is deliber-

Cunard sells Baxter Hoare holding back

By James McDonald

STANDARD Steamship Company, sold back by mutual agreement to the original holders, Mr. Saphir and his family, the 75 per cent. holding in Baxter, Hoare and Company it acquired in March, 1970.

Mr. Saphir is chairman of Baxter, Hoare and Company, international shipping, forwarding and air freight agents, and he and his family already hold the remaining 25 per cent. of the equity of the company.

Baxter Hoare was acquired by the previous Cunard management before Trafalgar House obtained control of Cunard earlier this year. The purchase price of the 75 per cent. interest was believed to be in the region of £100,000 and it is understood that the Saphir family had repurchased control for about this figure.

for stainless
steel
ring
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Weather

U.K. TO-DAY

It will be cloudy but dry in W. Scotland and N. Ireland. The rest of Scotland, N. Wales and N. England will be dry with sunny spells, but fog and frost will occur at night. S. Wales and S.W. England will be mostly cloudy, but clear intervals are expected later. The rain is rather warm generally.

London: E. Anglia, S.E. and E. England, E. Midlands, S.W. England, S. Wales, S. Scotland, N. Wales, and Cent. N. England, L. of Man, S.W. Scotland. Dry, sunny spells. Local fog and night. Wind Max 15C (59F).

Channel Is., S.W. England, S. Wales, S. Scotland, N. Wales, and Cent. N. England, L. of Man, S.W. Scotland. Dry, sunny spells. Local fog and night. Wind Max 14C (57F).

N.E. England, Borders, S. Scotland, Cent. Highlands, Glasgow, Dundee. Dry, sunny spells. Local fog and night. Wind Max 13C (55F).

Argyll, N.W. Scotland, N. Ireland. Mostly cloudy, mainly Wind S. to SE, moderate, 13C (55F).

Cathness, Orkney, Shetland. Dry, sunny spells. Wind moderate. Max 11C (52F).

Outlook: Little change. Ingoing: London 18.16, Glasgow 18.22, Belfast 18.31.

BUSINESS CENTRES

	Yday	Mid-day	Close
Amsterdam	C 15	15	15
Brussels	C 15	15	15
Berlin	D 13	13	13
Birmingham	C 11	11	11
Bombay	C 11	11	11
Buenos Aires	C 11	11	11
Calcutta	C 11	11	11
Canton	C 11	11	11
Cebu	C 11	11	11
Colon	C 11	11	11
Hankow	C 11	11	11
Hong Kong	C 11	11	11
Kobe	C 11	11	11
London	C 11	11	11
Lyons	C 11	11	11
Manila	C 11	11	11
Medan	C 11	11	11
Osaka	C 11	11	11
Paris	C 11	11	11
Shanghai	C 11	11	11
Singapore	C 11	11	11
Sourabaya	C 11	11	11
Tokyo	C 11	11	11
Yokohama	C 11	11	11

HOLIDAY RESORTS

	Yday	Mid-day	Close
Alaska	C 15	15	15
Alexandria	C 15	15	15
Algiers	C 15	15	15
Amsterdam	C 15	15	15
Antwerp	C 15	15	15
Bahia	C 15	15	15
Batavia	C 15	15	15
Bombay	C 15	15	15
Buenos Aires	C 15	15	15
Calcutta	C 15	15	15
Canton	C 15	15	15
Cebu	C 15	15	15
Colon	C 15	15	15
Hankow	C 15	15	15
Hong Kong	C 15	15	15
Kobe	C 15	15	15
London	C 15	15	15
Lyons	C 15	15	15
Manila	C 15	15	15
Medan	C 15	15	15
Osaka	C 15	15	15
Paris	C 15	15	15
Shanghai	C 15	15	15
Singapore	C 15	15	15
Sourabaya	C 15	15	15
Tokyo	C 15	15	15
Yokohama	C 15	15	15

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Telephone: 01-898 6940. Telex: London 88444.

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